CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Railways, Canada, Canadian Natl. Rys. has submitted to Parliament for approval, 429.9 mi. in Saskatchewan and Alberta, $18,023,000.

Schools, Kansas City, Mo., election in June, $5,000,000.

Arena, Phila., Pa., Tex Rickard having plans prepared, $5,000,000.

Schools, Birmingham, Ala., election Apr. 12, $3,500,000.

Bridge, Cairo, Ill., Cairo Bridge & Terminal Co. soon takes bids, $3,100,000.

Irrigation system, Texas, Laredo-Webb Co. making preliminary plans, $3,000,000.

Hotel and garage, Philadelphia, Pa., One Thousand Seven Hundred and Nine Locust St. Corp. having plans prepared, $3,000,000.

Apartment, hotel, store and office, Malden, Mass., syndicate c/o J. S. Draper having preliminary plans prepared, $3,000,000.

Paving, Mass., Worcester and Suffolk Co. making preliminary surveys, $3,000,000.

Apartment, New York, N. Y., Clent Constr. Co. having plans prepared, $2,500,000.

Casinghead gasoline plant, Abilene, Tex., Phillips Petroleum Co. plans plant, $2,000,000.

Warehouse, San Antonio, Tex., Merchants Transfer Co. plans dry and cold storage, $2,000,000.

Apartment hotel, Chicago, Ill., E. J. Mieleas, archt., prepared plans and soon takes bids, $2,000,000.

Office, New York, N. Y., The 584 Fifth Avenue Corp. having plans prepared $2,000,000.

Apartment, Chicago, Ill., syndicate c/o C. Weinfeld, having plans prepared, $2,000,000.

Hotel, New Orleans, La., B. G. Carbajal, Inc., having plans prepared, $1,600,000.

Water works, Birmingham, Ala., Birmingham Water Works Co. plans expending $1,600,000.

High School, Brooklyn, N. Y., Bd. Educ. having plans prepared, $1,500,000.

Bids Desired

Dam, Youngstown, O., June 1 by Bd. Local Control, $6,000,000.

Contracts

Subway, New York, N. Y., Bd. Transportation to Patrick McGovern Co., $9,700,195.

Factory, Cambridge, Mass., Kendall Industrial Building Trust to S. C. Sperry Co., $3,000,000.

Apartment, Upper Darby, Pa., Owner c/o H. B. Weldon, archt. to Smith-Hardican Co., $2,500,000.

Exchange, Denver, Colo., Mountain State Telephone and Telegraph Co. to C. E. Walker Constr. Co., $2,500,000.

Bank and office, Phila., Pa., Whitshire Realty Co. to Thompson-Starrett Co., $1,750,000.

Theatre and hotel, Ft. Wayne, Ind., C. Neiser to M. Irmacher & Son, $1,300,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Mar. 18	Elkhart, Ind.	Mar. 10
Mar. 18	Wash., D. C.	Mar. 17
Mar. 21	Everett (Boston P. O.), Mass.	Mar. 17
Mar. 22	St. Louis, Mo.	Feb. 24
Mar. 22	Crewe, Va.	Mar. 10
Mar. 22	Vancouver, B. C.	Mar. 10
Mar. 22	St. George, N. Y.	Mar. 17
Mar. 23	Hamilton, Ont.	Mar. 17
Mar. 23	Providence, R. I.	Mar. 3
Mar. 23	San Joaquin, Calif.	Mar. 3
Mar. 25	Rutland, Mass.	Mar. 17
Mar. 28	Bunnell, Fla.	Mar. 10
Mar. 30	Front Royal, Va. Adv. Mar. 17.	Mar. 17
Mar. 30	Reading, Pa. Adv. Mar. 10 and 17.	Mar. 17
Apr. 4	Wernersville, Pa. Adv. Mar. 17.	Mar. 17
Apr. 5	Allentown, Pa.	Mar. 10
Apr. 7	Kingston, N. Y. Adv. Mar. 17.	Mar. 17
Apr. 11	Magdalina, N. M.	Mar. 17
June 1	Youngstown, O.	Mar. 17

Sewers

Mar. 21	Jacksonville, Fla.	Mar. 10
Mar. 21	Long Island City, N. Y.	Mar. 17
Mar. 21	Albion, Ill.	Mar. 17
Mar. 22	Auburn, Wash.	Mar. 10
Mar. 23	Hillside (mail Elizabeth), N. J.	Mar. 3
Mar. 23	Brooklyn, N. Y.	Mar. 17
Mar. 23	Hamilton, Ont.	Mar. 17
Mar. 24	Akron, O.	Feb. 24
Mar. 26	Dearborn, Mich.	Mar. 17
Mar. 28	Towson, Md.	Mar. 17
Mar. 28	Cape Girardeau, Mo. Adv. Mar. 17.	Mar. 17
Mar. 29	North St. Paul, Minn.	Mar. 17
Mar. 29	Parsons, Kan.	Mar. 17
Mar. 29	Toledo, O. Adv. Mar. 3 to 17.	Feb. 24
Mar. 29	Maple Shade, N. J. Adv. Mar. 17.	Mar. 17
Apr. 1	Tulsa, Okla.	Mar. 17
Apr. 1	Kenmore, O.	Feb. 3
Apr. 1	Detroit, Mich.	Mar. 3
Apr. 4	Buffalo, N. Y. Adv. Mar. 17.	Mar. 17
Apr. 6	Phila., Pa. Adv. Mar. 17.	Mar. 17
Apr. 12	Waterbury, Conn. Adv. Mar. 17.	Mar. 17
Apr. 14	Mobile, Ala. Adv. Mar. 17.	Mar. 17

Waste Disposal

Bids close		*See Eng. News-Record*
Mar. 25	Hamilton, O.	Mar. 17

Bridges

Mar. 19	Cleveland, O.	Mar. 17
Mar. 22	Grundy Center, Ia.	Mar. 17
Mar. 22	Onawa, Ia.	Mar. 17
Mar. 22	Gloucester, Mass.	Mar. 17
Mar. 22	Seekonk, Mass.	Mar. 17
Mar. 24	Sac City, Ia.	Mar. 17
Mar. 24	Merrill, Wis.	Mar. 10
Mar. 25	Hamilton, O.	Mar. 3
Mar. 27	New York Adv. Mar. 17.	Mar. 17
Mar. 29	St. Francis, Kan.	Mar. 17
Mar. 29	North Carolina	Mar. 17
Mar. 30	New Rochelle, N. Y. Adv. Mar. 10 and 17.	Mar. 17
Mar. 31	Kentucky	Feb. 24
Apr. 4	Pennsylvania	Feb. 24
Apr. 11	New York and New Jersey	Mar. 10
Apr. 12	Decatur, Ill. Adv. Mar. 17.	Mar. 17

Excavation, Drainage, Irrigation, Levees, River and Harbor

Mar. 18	New York, N. Y.	Mar. 10
Mar. 21	Stevenston, B. C.	Mar. 17
Mar. 21	Long Island City, N. Y.	Mar. 17
Mar. 22	Chicago, Ill.	Mar. 17
Mar. 22	Onawa, Ia.	Mar. 17
Mar. 22	Brownsville, Tex.	Mar. 17
Mar. 23	Shreveport, La.	Mar. 17
Mar. 24	Lebanon, Ind.	Mar. 17
Mar. 24	Norfolk, Va.	Mar. 17
Mar. 25	Oroville, Calif.	Mar. 17
Mar. 29	Dover, N. J.	Mar. 10
Apr. 1	New York Adv. Mar. 10 and 17.	Mar. 10

Streets and Roads

Mar. 21	Akron, O.	Mar. 3
Mar. 21	Crown Point, Ind.	Mar. 10
Mar. 21	Pascagoula, Miss.	Mar. 10
Mar. 21	Euclid, O.	Mar. 17
Mar. 21	Holdenville, Okla.	Mar. 17
Mar. 21	Long Island City, N. Y.	Mar. 17
Mar. 21	Charleston, W. Va.	Mar. 17
Mar. 21	Pueblo, Colo.	Mar. 17
Mar. 22	Seminole, Okla.	Mar. 17
Mar. 22	Shidler, Okla.	Mar. 17
Mar. 22	Onawa, Ia.	Mar. 17
Mar. 22	Grand Rapids, Mich.	Mar. 17
Mar. 22	Ellsworth, Wis.	Mar. 17
Mar. 22	Madison, Minn.	Mar. 17
Mar. 22	Grundy Center, Ia.	Mar. 17
Mar. 22	Gainesville, Fla.	Mar. 10
Mar. 22	East Providence (br. Providence), R. I.	Mar. 10
Mar. 22	New York Adv. Mar. 10 and 17.	Mar. 10
Mar. 22	Florida	Mar. 3
Mar. 22	Peekskill, N. Y. Adv. Mar. 3 to 17.	Mar. 3
Mar. 22	Mt. Rose, N. J.	Mar. 17
Mar. 22	Thief River Falls, Minn.	Mar. 17
Mar. 23	Muscatine, Ia.	Mar. 17
Mar. 23	Wisconsin	Mar. 17
Mar. 23	Nevada	Mar. 17
Mar. 23	St. George, N. Y.	Mar. 17
Mar. 23	Kitchener, Ont.	Mar. 17
Mar. 23	Baltimore, Md.	Mar. 17
Mar. 23	Monessen, Pa.	Mar. 17
Mar. 23	Baltimore, Md.	Mar. 17
Mar. 23	Brooklyn, N. Y.	Mar. 17
Mar. 23	New York, N. Y.	Mar. 17
Mar. 24	Corunna, Mich.	Mar. 17
Mar. 24	Madison, Wis.	Mar. 17
Mar. 24	Adel, Ia.	Mar. 17
Mar. 24	New York Adv. Mar. 10 and 17.	Mar. 10
Mar. 24	Peoria, Ill.	Mar. 17
Mar. 24	Blue Anchor (mail Waterford Works), N. J.	Mar. 17
Mar. 25	Pennsylvania Adv. Mar. 10 and 17.	Mar. 10
Mar. 25	Winterset, Ia.	Mar. 10
Mar. 25	St. John, Mich.	Mar. 17
Mar. 25	Green Cove Springs, Fla.	Mar. 17
Mar. 25	Wisconsin	Mar. 17
Mar. 26	Pennsylvania Adv. Mar. 10 and 17.	Mar. 10
Mar. 26	Pocatello, Idaho	Mar. 17
Mar. 27	North Carolina	Mar. 17
Mar. 28	San Luis Obispo, Calif.	Mar. 10
Mar. 28	San Diego, Calif.	Mar. 17
Mar. 28	Kansas City, Mo.	Mar. 17
Mar. 28	Vincennes, Ind.	Mar. 17
Mar. 29	Greenville, Miss.	Mar. 17
Mar. 29	Washington	Mar. 17
Mar. 29	Iowa	Mar. 17
Mar. 29	Jennings, La.	Mar. 17
Mar. 30	Ottumwa, Ia.	Mar. 17
Mar. 30	Jasper, Ind.	Mar. 17
Mar. 31	Kentucky	Mar. 3
Mar. 31	Mound City, Ia.	Mar. 10
Mar. 31	Kentucky	Mar. 10
Apr. 1	Tulsa, Oklo.	Mar. 17
Apr. 1	Birmingham, Ala.	Mar. 10
Apr. 1	Kentucky	Feb. 17
Apr. 1	Birmingham, Ala.	Feb. 24
Apr. 4	Minot, N. D.	Mar. 10
Apr. 4	South Bend, Ind.	Mar. 17
Apr. 4	New Jersey Adv. Mar. 17.	Mar. 17
Apr. 6	Gainesville, Fla.	Mar. 17
Apr. 6	Morgantown, W. Va. Adv. Mar. 17.	Mar. 17
Apr. 8	Larned, Kan.	Mar. 17

Special proposal advertising on page 155

Constr. News page 163

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Caulking Means EXPENSE---
No Caulking Means PROFIT

Making LEADITE Joints on 24 inch c. i. B & S Force Main

It is needless waste of time, money and labor to caulk cast iron bell and spigot water mains.

Why not turn this expenditure into a profit?

Use Leadite which is melted and poured into the joint.

Leadite forms a water-tight bond by filling every crevice of the joint from the yarn out to face of bell of pipe, without caulking.

Leadite means simplicity, efficiency and economy.

Water works all over the world use Leadite because it makes a good joint which improves with age.

Leadite resists electrolysis.

Leadite facilitates rapid progress of the work generally.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
Apr. 8	Tennessee	Mar. 10
Apr. 14	Kentucky	Mar. 10
Apr. 15	Lawrence, Kan.	Mar. 10
Apr. 15	Canton, O.	Feb. 3
Apr. 15	Anderson, Ind.	Mar. 3
Apr. 15	Phila., Pa.	Mar. 10
Apr. 17	Anderson, Ind.	Mar. 3
Apr. 20	Birmingham, Ala.	Mar. 3
May 1	Duluth, Minn.	Feb. 24

Buildings—Commercial

Mar. 18	Phila., Pa.	Mar. 17
Mar. 18	Wilmington, Del.	Mar. 17
Mar. 21	Phila., Pa.	Mar. 17
Mar. 22	Waterbury, Conn.	Mar. 17
Mar. 22	Meriden, Conn.	Mar. 10
Mar. 22	Toronto, Ont.	Mar. 10
Mar. 24	Baltimore, Md.	Mar. 17
Mar. 24	Nashville, Tenn.	Mar. 17
Mar. 28	Corpus Christi, Tex.	Mar. 10
Mar. 28	Los Angeles, Calif.	Mar. 17
Mar. 28	Jackson, Miss.	Mar. 17
Apr. 1	Chicago, Ill.	Mar. 17
Apr. 1	Anderson, Ind.	Mar. 10
Apr. 1	Wilmington, Del.	Jan. 27
Apr. 1	Canton, O.	Jan. 20
Apr. 1	New Castle, Pa.	Feb. 17
Apr. 30	Louisville, Ky.	Feb. 17
May 1	La Junta, Colo.	Feb. 3

Buildings—Industrial

Mar. 24	Columbus, O.	Mar. 3
Mar. 31	Ponca City, Okla.	Mar. 17

Buildings—Educational, Religious

Mar. 18	Bedford, O.	Mar. 17
Mar. 20	Gardner, Mass.	Feb. 17
Mar. 21	London, Ont.	Mar. 10
Mar. 21	Lansing, Mich.	Mar. 10
Mar. 21	Wyoming, O.	Mar. 10
Mar. 22	Columbus, O.	Mar. 10
Mar. 22	Midvale (br. New Philadelphia), O.	Mar. 17
Mar. 22	Tyrone, Pa.	Mar. 17
Mar. 23	St. Albans (mail Jamaica), N. Y.	Mar. 10
Mar. 24	Minneapolis, Minn.	Mar. 17
Mar. 28	Live Oak, Fla.	Mar. 17
Mar. 29	Longview, Wash.	Mar. 17
Mar. 29	Palo Alto, Calif.	Mar. 17
Mar. 30	La Grange, Ill.	Mar. 17
Mar. 30	Green Bay, Wis.	Mar. 17
Mar. 31	Victoria, B. C.	Mar. 10
Apr. 1	Virginia, Minn.	Feb. 3
Apr. 1	Pendleton, Ind.	Mar. 3
Apr. 2	Athens, O.	Mar. 17
Apr. 4	Cleveland, O.	Mar. 17
May 1	Monroe, Mich.	Jan. 13

Federal Government Work

Mar. 18	Dredging—Albany, N. Y.	Feb. 17
Mar. 21	Power Houses—Louisville, Ky.	Mar. 17
Mar. 22	Fire Alarm System—Sheridan, Wyo.	Mar. 17
Mar. 22	Post Office—Montclair, N. J.	Feb. 24
Mar. 22	Machinery, etc.—Louisville, Ky. Adv. Feb. 24 to Mar. 17.	Feb. 24
Mar. 22	Bronze, etc.—Boston, Mass.	Mar. 17
Mar. 22	Cement, etc.—Milwaukee, Wis.	Mar. 17
Mar. 24	Post Office—Bayonne, N. J.	Mar. 3
Mar. 25	Barges—St. Louis, Mo. Adv. Mar. 17.	Mar. 17
Mar. 29	Buildings, etc.—Sunmount, N. Y. Adv. Mar. 3 to 17.	Mar. 3
Mar. 29	Sand Fill—Gulfport, Miss.	Mar. 17
Mar. 30	Remodeling—Brooklyn, N. Y. Adv. Mar. 17.	Mar. 17
Mar. 30	Railroad—Boston, Mass.	Mar. 17
Apr. 1	Pipe Line—Wash., D. C. Adv. Mar. 10 and 17.	Mar. 10
Apr. 4	Post Office—East Las Vegas, N. M.	Mar. 3
Apr. 5	Buildings, etc.—Alderson, W. Va.	Mar. 3
Apr. 5	Trestles, Wickets, etc.—Louisville, Ky. Adv. Mar. 10 and 17.	Mar. 10
Apr. 5	Scout Cruisers—Wash., D. C.	Mar. 10
Apr. 6	Heating Plant—Phila., Pa.	Mar. 17
Apr. 11	Removing Wreck—New Orleans, La. Adv. Mar. 17.	Mar. 17
Apr. 11	Post Office—Shelbyville, Ky. Adv. Mar. 10 and 17.	Mar. 17
Apr. 12	Canal—Oregon	Mar. 10
Apr. 12	Fences and Gates—Levermore, Calif.	Mar. 17
Apr. 12	Refrigerating Equipment—Oteen, N. C.	Mar. 17
Apr. 12	Refrigerating Equipment—Maywood, Ill.	Mar. 17
Apr. 13	Marine Railway—San Diego, Calif. Adv. Mar. 17.	Mar. 17
Apr. 15	Dredging—Hartford, Conn. Adv. Mar. 17.	Mar. 17
June 1	Quarters—Canacao, P. I.	Mar. 3

Unclassified

Mar. 18	Bath House—Cleveland Heights (Warrensville P. O.), O.	Mar. 17
Mar. 18	Conductor and Cable—Cleveland, O.	Mar. 17
Mar. 19	Grandstand—Elyria, O.	Mar. 17
Mar. 21	Property Improvements—Cleveland, O.	Mar. 3
Mar. 22	Station—Dorchester (Boston P. O.), Mass.	Mar. 10
Mar. 22	Guard Rail—Florida	Mar. 17
Mar. 22	Guard Rail—Charlton, Ia.	Mar. 17
Mar. 22	Culverts—Grundy Center, Ia. Adv. Mar. 17.	Mar. 17
Mar. 23	Refrigeration Plant—Middletown, N. Y.	Feb. 24
Mar. 25	Gallows Frame—New York, N. Y.	Mar. 17
Mar. 25	Borings—New York	Mar. 17
Mar. 28	Subway—Sacramento, Calif.	Mar. 10
Mar. 28	Undergrade Crossing—California	Mar. 17
Mar. 28	Power Unit—Boston, Mass.	Mar. 17
Mar. 30	Electrical Work—Buffalo, N. Y.	Mar. 3
Mar. 30	Fire Alarm Equipment—Central Islip, N. Y. Adv. Mar. 10 and 17.	Mar. 10
Apr. 5	Track Work—Boston, Mass.	Mar. 17
Apr. 7	Heating and Ventilating—Indianapolis, Ind.	Mar. 17
Apr. 13	Refrigeration Equipment—Kings Park, N. Y. Adv. Mar. 17.	Mar. 17

Materials

Mar. 18	Asphalt Sand and Rubber Covered Wire—Pittsburgh, Pa.	Mar. 17
Mar. 21	Lumber, Culvert Pipe, etc.—Oskaloosa, Ia.	Mar. 17
Mar. 21	Flux Oil and Road Oil—Chicago, Ill.	Mar. 17
Mar. 21	Road Oil—Chicago, Ill.	Mar. 17
Mar. 21	Metals and Castings—New York, N. Y.	Mar. 17
Mar. 22	Pile Chain—Chicago, Ill.	Mar. 17
Mar. 22	Lumber, Culvert Pipe, etc.—Grundy Centre, Ia.	Mar. 17
Mar. 22	Culvert Materials—Madison, Minn.	Mar. 17
Mar. 22	Road Signs, Steel Posts, etc.—Iowa	Mar. 3
Mar. 23	Bituminous Material, etc.—Albany, N. Y. Adv. Mar. 10 and 17.	Mar. 10
Mar. 23	Road Oil—Clayton, Mo.	Mar. 17
Mar. 23	Steel Intake Pipe—Hamilton, Ont.	Mar. 17
Mar. 23	Cement, etc.—St. George, N. Y.	Mar. 17
Mar. 23	Pipe—New York, N. Y.	Mar. 17
Mar. 23	Reinforcing Steel—Minneapolis, Minn.	Mar. 17
Mar. 23	Frames and Covers—Boston, Mass.	Mar. 17
Mar. 26	Crushed Lime Stone and Washed Gravel—Spencer, Ind.	Mar. 17

News of the Week

Waterworks

Proposed Work

Ala., Birmingham — Birmingham Water Works Co., 2114 1st Ave., plans expending $1,600,000, improving facilities and extending lines, incl. raising Purdy Dam 20 ft. increasing volume water impounded from 1,500,000,000 to 5,000,000,000 gal., and 8 mi. 42 in. mains from Shades Mountain Filter Plant west through Shades Valley, etc.

Mich., Detroit — Dept. Water Supply, made plans approximately ½ mi. 12 in. main laid as submarine main across American Channel to Belle Isle, etc. $25,000. G. H. Fenkell, 176 East Jefferson Ave. genl. mgr.

Mich., Fordson—Plans extending 6 and 8 in. mains incl. 24 in. main under Michigan Ave. from Maple Dr. to Division Rd. $100,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., St. Francisville — Made plans and soon takes bids 26,580 ft. 4- to 8-in. c.i. mains, 60,000 gal. tank on tower, 300 g.p.m. motor driven pump, pump house, etc. Cole, Asire & Moore, J. M. S. Bldg., South Bend, Ind., engrs.

Ia., Iowa City — Peoples Iowa City Waterworks Corp. soon takes bids new 400,000 gal. reservoir, aerator, low pressure pump and engine, etc. $75,000. G. J. Keller, mgr. Noted Feb. 24.

Mo., Neosho—Election Mar. 29, $25,000 bonds, extending mains, etc., in various streets. Noted Nov. 25.

Mo., St. Louis—Water Dept. takes bids about Apr. 19, superstructure for 230 x 250 ft. filter plant, 18 ft. high, and 40 x 112 ft. head house, 26 ft. high, both Bedford stone, enamel brick and tile. $300,000. Study & Farrar, 1363 Arcade Bldg., archts. Noted Mar. 10.

Tex., Abilene — Soon takes bids earth dam and embankment, $300,000; and bids later extending water distributing plant, $200,000. O. K. Hobbs, city engr. Noted Jan. 6.

Tex., Big Lake—Plans new water works, incl. main line from water supply about 2½ mi. from here, and constructing distribution system in town to connect with main. Additional pumping equipment needed. $40,000. Address Mayor.

Tex., Brownsville—Take bids in April, waterworks, sewer and light improvements, etc. $200,000. A. Tamm, city engr.

Tex., Lockney—City and T. Z. Reed, mayor, election soon $25,000 bonds, extending waterworks. Hawley & Roberts, 403 Cotton Exch. Bldg., Ft. Worth, engrs.

Tex., Merkel—Making preliminary surveys, etc., waterworks and sewerage system. $35,000. Address mayor.

Tex., Nixon — Defeated $70,000 bonds, waterworks. New election later. Address Mayor. Noted Mar. 10.

Tex., San Antonio — See "Streets and Roads."

Wash., Seattle—W. T. Batcheller, engr., 929 Dexter Horton Bldg., rejected bids Feb. 25, waterworks, incl. 125,000 gal. steel standpipe, 13,800 ft. 4- to 8-in. steel pipe and 10,000 gal. creosoted wood storage tank, etc., for Lake Forest Park Water Co. Noted Mar. 3.

Bids Desired

Mass., Everett (Boston P. O.)—Mar. 21, by Bd. Pub. Wks., City Hall, 50 tons 8 in., 20 tons 10 in. and 100 tons 6 in. Class "B" Am. W. W. A. c.i. pipe, also 300 disc water meters and connections. J. Chambers, chn.

Mass., Falmouth — Mar. 30, at Office Water Comrs., Town Hall, waterworks, incl. pipes, fittings, etc. Richardson & Gay, 220 Devonshire St., Boston, consult. engrs.; adv. E. N.-R. Mar. 17.

Mass., Rutland—Mar. 25, by Water Supply Comn., 24 School St., Boston, sinking 650 ft. shaft for Wachusett-Coldbrook Tunnel, here, for Commonwealth of Massachusetts, Metropolitan Dist. Water Supply Co., 24 School St., Boston. Private plans. Noted Oct. 21.

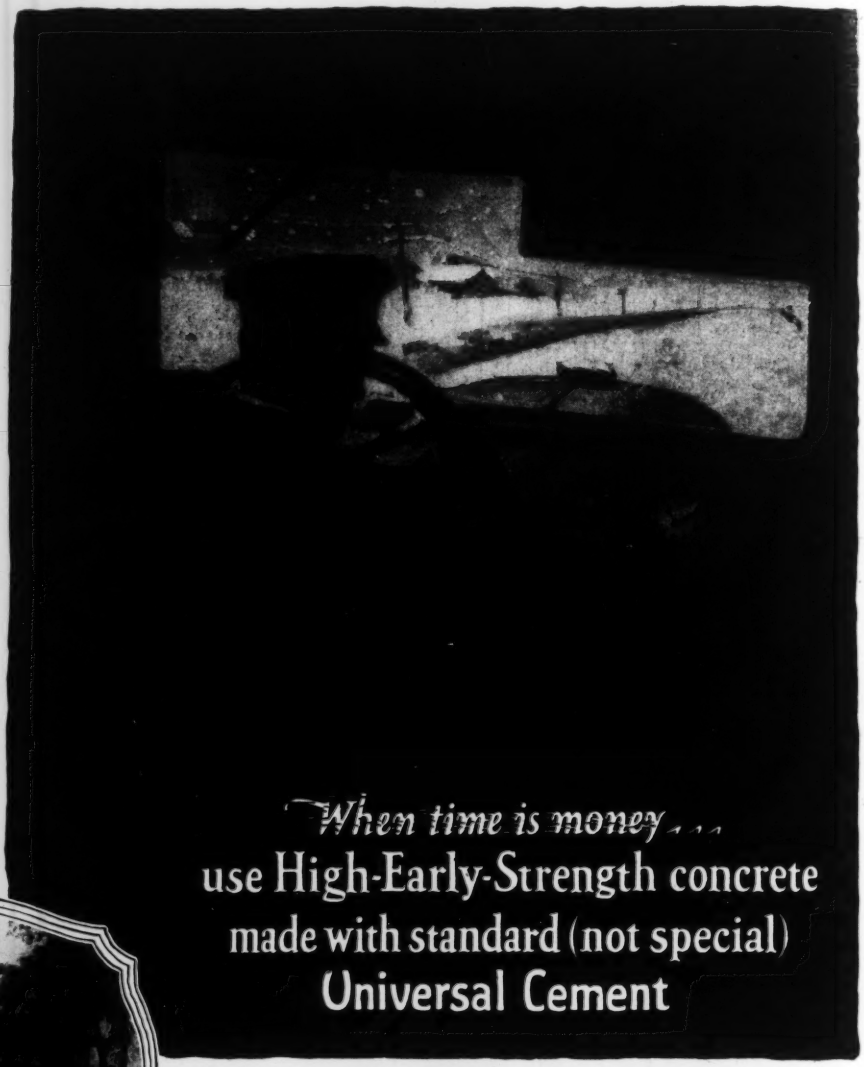
N. Y., Kingston—Apr. 7, by Bd. Water Comrs., City Hall, raising Cooper Lake Reservoir, Contr. D, in town of Woodstock, near here. San Born & Bogert, 30 Church

Constr. News page 164

Two years of research in

Construction Costs

to save time and money for *you*. *See page* 469 in main editorial section.



When time is money . . .
use High-Early-Strength concrete made with standard (not special) Universal Cement

Street intersection on important highway at LeMars, Iowa, paved and opened to traffic in 5 *days* thru use of High-Early-Strength *Universal* Concrete. B. C. Wooley, city engineer. Mathey Brothers, LeMars, contractors. Standard *Universal* cement, the same quality *Universal* regularly handled, furnished by Jake Lampert Yards, LeMars.

Intersection Placed and Ready for Traffic in *Five Days* on Important Highway

Three thousand automobiles passed over a new street intersection placed and put in use in 5 *days* upon the recent opening of the new highway between Sioux City and LeMars, Iowa.

In addition to saving *time*, this High-Early-Strength *Universal* Concrete is permanently *better* and *stronger* concrete. It is made by using thoroly tested methods and standard *Universal* cement which, being standard —not special—sells at the regular price. The accompanying coupon will bring full details promptly as to the methods to use to obtain such results.

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods for securing strong concrete in *3 days* with standard *Universal* [not special] cement, the same quality *Universal* regularly used.

Name .....

Address .....

E.N.R.-3-17-27

Universal Portland Cement Co.
Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

St., New York City, consult. engrs.; adv. E. N.-R. Mar. 17.

N. Y., St. George — Mar. 22, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, new building for Clove Pumping Station; also installing complete pumping plant.

Pa., Phila.—Apr. 4, at office S. S. Hill, supt. Wernersville State Hospital, 2 low intake dams, mixing chamber, coagulating basin, 2 filter units and supply main. Fuller & McClintock, Penn. Bldg., 15th and Chestnut Sts., Phila., engrs.; adv. E. N.-R Mar. 17.

Pa., Reading—Mar. 30, by City Council. diamond drill borings, Contr. 42; chemical feed controllers, Contr. 43; venturi meter, complete, Contr. 44; and filter rate controllers, Contr. 45. A. R. O'Reilly, Bureau of Water, ch. engr.; adv. E. N.-R. Mar. 17

D. C., Wash. — Mar. 18, by District Comrs., District Bldg., c.i. coated water pipe and specials.

Va., Front Royal—Mar. 30, by Town, at office B. J. Hillidge, mayor, 500,000 gal. reservoir, etc. S. B. Williamson, Box 551, Charlottesville, consult. engr.; adv. E. N.-R. Mar. 17.

O., Youngstown—June 1, by Bd. Local Control, constructing Meander Creek Dam, 13,400,000 gal. capacity, etc., in Mahoning Calley Dist. $6,000,000.

Ont., Hamilton — Mar. 23, by F. F. Treleaven, mayor, City Hall, 2,953 lin.ft. 60 in. steel pipe with fittings and specials, supplied in 125 ft. lengths. $75,000. W. L. McFaul, City Hall, engr.

Ont., Merritton — See "Contracts Awarded."

Bids Received

Massachusetts—Commonwealth of Massachusetts, Boston, 13,300 lin.ft. 54 in. steel pile with necessary appurtenances and connections, etc., in Boston and Brookline from Biggs Constr. Co., Akron, O. $248,645. Noted Feb. 24.

N. Y., Akron—Bd. Water Comrs., at office W. J. Kelley, village clk., Feb. 23 improving waterworks, Div. 1, from F. C. Schoss, $35,993; Div. 2, from L. Munsie, Rochester, (a) bell and spigot pipe $39,711 (b) bell and spigot centrifugal deLavaud pipe $38,421, and (c) Universal pipe $32,571; Div. 3, from U. S. Cast Iron Pipe Co., 957 East Ferry St., Buffalo, (a) $98,320 (b) $84,070, and from Central Fdry. Co., 41 West 42nd St., New York City, (c) $94,490; and Div. 4, from Norwood Eng. Co., Florence, Mass., $7,100. Noted Feb. 17.

N. Y., Long Island City—N. J. Hayes, comr. Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 11, mains, etc. in Andres Ave., here, from Riverdale Water Works, 1 Riverdale Ave., $7,974; 33rd Ave. and 40th St., from S. Gallucci & Sons, Railroad Ave., Corona, $5,720 and $7,436 respectively; and 46th St., from Gregory Contg. Co., 351 East 124th St., $5,998. Noted Mar. 10.

N. J., Trenton—City Comn., from Manufacturers Selling Co., Ward Ave., 1,200 ¾ curb stops, at $0.81 each, and one hundred 1 in. curb stops $1.15; from G and H Supply Co., Southard St., fifty 1½ in. curb stops $3.22, one thousand ¾ in. corporation cocks $1.96, two hundred 1 in. corporation cocks $2.69, one thousand extension service boxes $1.29, and twenty-five extension service boxes $2.47; from United States Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., Pa., fifty tons 4 in. c.i. pipe $50.30, two hundred tons 6 in. $46.30, 65 tons 6 in. $46.30 and 31 tons 18 in. $46.30, all above for Water Supply Dept.

Ore., Portland—Bull Run sluice gates and valves for Bear Creek Dam, from Pelton Water Wheel Co., 2929 19th St., San Francisco, Calif., $57,351. Noted Mar. 3.

Contracts Awarded

Mass., Somerset—Water Supply Comn., distributing system Sect. 8, to G. Ferullo Co., 31 North Sq., Boston, $43,528; and Sect. 9, to R. H. Newell Co., Uxbridge, $47,641. Noted Feb. 24.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 26th Ave., to Riverdale Water Works Corp., 355 East 113th St., New York City, $8,349; in Dorothy Pl., to B. Costanzo, 2777 Myrtle Ave., Brooklyn, $6,850; and in 47th Ave., to Gregory Constr. Co., Inc., 351 East 124th St., New York City, $8,763. Grand total $23,962. Noted Feb. 24.

Md., Baltimore—Bd. Awards, valves and hydrants to Bureau Water Supply, to A. P. Smith, 111 Norman St., East Orange, N. J., $33,295. Noted Mar. 3.

Ky., Louisville—Louisville Water Co., 435 South 3rd St., 48 m.g. filter units and buildings complete, 1 m.g. clear water reservoir, pump station addition, 40 m.g. centrifugal pump at River Station, two 500 hp. boilers and accessories at Crescent Hill Pump Station, to Natl. Concrete Constr. Co., Board of Trade Bldg. Engrs. est. $1,000,000. Noted Jan. 6.

O., Columbus—O. Moore, clk. Franklin Co., 67,900 ft. 6- to 12-in. c.i. mains, etc., in Clinton Dist. 2, to B. Canini, 1898 Cleveland Ave., $14,845.

Mich., Detroit—Bd. Water Comrs., 176 East Jefferson Ave., constructing Sect. 3, Springwells station intake tunnel, to J. A. Mercier Co., 616 Hammond Bldg., $1,092,471.

Mich., Fordson—City and Ford Motor Co. making plans approximately 12,000 ft. 42 or 44 in. steel mains in Fordson and Dearborn to Ford property. Detroit Dept. Water Supply, Detroit, engrs.

Ont., Merritton—Water Comn., filters and filter equipment for 1½ m.g. capacity 4 unit waterworks filtration plant, to W. J. Westaway Co., 38 Main St., Hamilton, $11,895; pumps and pumping equipment, to Turbine Equipment Co., 73 King St. W., Toronto, $2,947; and foundation and excavation, to owners, by day labor. Engrs. est. $60,000. Noted Jan. 13.

Ont., Thorold—Water Comn., filter equipment for 3 m.g. filtration plant, to W. J. Westaway Co., 38 Main St., Hamilton. Engrs. est. $100,000. Noted Mar. 10.

Sewers

Proposed Work

N. J., Delanco—Plans sewerage system and disposal plant. $158,000. Engineer not selected.

Miss., Picayune—See "Waterworks."

Tenn., Alton Park — See "Streets and Roads."

O., Canton—Bd. Control soon takes bids sewer in Ridgewood Dist. north of 19th St. and west of Market St., $60,000; also storm water sewer in Shriner Run Dist., $134,346.

Mich., Muskegon—City and Muskegon Co. plans Ruddiman Valley Sanitary Sewers 1 and 2 approximately 18 mi. 8- to 30-in. pipe. $300,000. M. M. Buck, Union Bldg., and H. J. Lewis, City Hall, engrs.

Mich., Muskegon Heights (Ind. sta. Muskegon)—Election Apr. 4, $200,000 bonds, 3 mi. 15- to 72-in. storm sewers in Hume Ave. Area west of 6th St. and north of Bway. C. S. Gamble, City Hall, engr.

Ill., Kewanee—Making preliminary plans new outfall sewers, sewage disposal plant, laterals, etc., in all streets. $300,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Dec. 23.

Ill., Marion—Bd. Local Impvts. takes bids about Mar. 28, complete sewage disposal plant, with piping, pumping equipment, building, etc. $83,207. G. F. McCarty, city engr. P. B. Wilson, 1st Natl. Bldg., consult. engr.

Ill., Mt. Vernon—Bd. Local Impvts. takes bids about Mar. 28, 80,990 ft. 8- to 36-in. sewers, 219 manholes, 16 drop manholes, 82 lampholes, sewage disposal plant with necessary piping, 59,252 cu.yd. excav., etc., in Sewer Dist. 41. $270,536. C. H. Hammond, city engr. P. B. Wilson, 1st Natl. Bldg., Marion, consult. engr. Noted May 6.

Neb., Beaver City—H. B. Hall, city clk., City Hall, soon takes bids complete sewerage system. $40,000. Scott & Scott, 427 Bankers Life Bldg., Lincoln, engrs.

Tex., Alvin—Postponed indefinitely election $60,000 bonds, complete sewerage system and disposal plant. Address J. Gobert, city secy. Noted Jan. 27.

Tex., Brownsville—See "Waterworks."

Tex., Merkel—See "Waterworks."

Tex., Nixon — Defeated $30,000 bonds, sewerage system. New election later. Address Mayor. Noted Mar. 10.

Tex., San Antonio — See "Streets and Roads."

Okla., Earlsboro—Making plans new sewerage system, incl. septic tank, etc. $30,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engr.

Okla., Okeene—Defeated $47,000 bonds, sewers in various streets. G. W. Green, mayor. Noted Sept. 16.

Bids Desired

Conn., Waterbury—Apr. 12, by Bd. Pub. Welfare, City Hall, 4,618 ft. sewers, largely in bed of Naugatuck River. R. A. Cairns, city engr.; adv. E. N.-R. Mar. 17. Noted Feb. 24.

N. Y., Brooklyn—Mar. 23, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Baughman Pl., Avenues Y and Z, Schenectady, Atkins, Voorhies, and Emmons Aves., East 26th, East 27th, East 28th Sts., etc.

N. Y., Buffalo — Apr. 4, at Room 3, Municipal Bldg., 4½ ft. x 4½ ft. rein.-con. sewer on wooden pile foundation, with rein.-con. outlet wall between old channel line of Buffalo River and new channel line of Buffalo River Project 1; also for 5 ft. 6 in. x 4 ft. 11 in. rein.-con. sewer on wooden pile foundations, with rein.-con. outlet wall between existing end Munford St. trunk sewer and new channel line Cazenovia Creek, Project 2; adv. E. N.-R. Mar. 17.

N. Y., Long Island City—Mar. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers, etc. in Ditmars, Astoria, Nelson, Greenpoint Aves., Hood and Van Buren Sts.

N. J., East Orange—See "Streets and Roads."

N. J., Maple Shade—Mar. 29, by Com. Chester Twp., Town Hall, sewage treatment plant, Contr. 3; and sewage pumping Stations 1 and 2, Contr. 4. Remington & Vosbury, 509 Cooper St., Camden, engrs.; adv. E. N.-R. Mar. 17.

Pa., Phila.—Apr. 6, at Room 216, City Hall, Schedule A, Upper Delaware Collecting Sewer from Wheatche of Lane and Richmond St. to Holmesburg Ave. and State Rd. G. Biles, dir.; adv. E. N.-R. Mar. 17.

Md., Towson—Mar. 28, by Comrs. Baltimore Co., Court House, 6,857 lin.ft. 8 and 12 in. vitr. sewers in Kensington, Proposal 10-S. A. E. Walden, Towson, ch. engr.

Ala., Mobile — Apr. 14, by Bd. City Comrs., storm sewers for Divs. A and B, 3,900 lin.ft. rein.-con. culverts, one course concrete and asphaltic concrete pavements, etc. W. Smith, city engr.; adv. E. N.-R. Mar. 17.

Mich., Dearborn — Mar. 26, by Drain Comrs. Wayne Co., Esper and Ten Eycke Drain, in Dearborn Twp., 23,876 ft. 12- to 60-in. crock pipe. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Alton — Mar. 21, by Bd. Local Impvts., 46,707 ft. 8- to 12-in. vitr. clay sewers, 334 ft. 6 in. raised connections, 559 ft. 6 in. tee service connections, 663 cu.yd. rock excav., 18 brick drop manholes 15 flush tanks, 3 lamp holes, 1,721 ft. 3 and 6 in. c.i. pipe 2 pumping stations, etc., $94,616. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs. Noted Feb. 10.

Minn., North St. Paul—Mar. 29, by O. W. Bergstrom, city recdr., sanitary sewerage system, 50,000 lin.ft. 8 in., 5,000 ft. 10 in., 1,100 ft. 12 in., 3,700 ft. 15 in., 4,300 ft. 21 in. vitr. tile sewers, and 185 manholes in various streets; also sewerage disposal plant. $150,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs. Noted Feb. 17.

Kan., Parsons—Mar. 29, by J. F. Correll, city clk., sewage disposal works. $30,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Mar. 3.

Mo., Cape Girardeau—Mar. 28, by W. C. Kaempfer, city clk., 3.5 mi. 12- to 66-in. storm sewers in Sewer Dist. 1; adv. E. N.-R. Mar. 17.

Okla., Tulsa—Apr. 1, sewers in Storm Sewer Dists. 3, 11 and 18. $60,000. C. S. Schultz, city engr.

N. M., Magdalina — Apr. 11, by City Council, 5.5 mi. 4 in. gravity pipe line, concrete intake and 100,000 or 200,000 gal. steel tank. $40,000. Welland Eng. Co., Pueblo, Colo., engrs.

Ont., Hamilton—Mar. 23, by S. H. Kent, city clk., c/o F. F. Treleaven, mayor. City Hall, 1,155 ft. 4 x 5 ft., and 764 ft. 4 x 4 ft. x 4½ in. sewer in tunnel in Barton St. W. F. McFaul, city engr.

Bids Received

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Mar. 9, sewers in 23rd and Woodside Aves., from Manmill Constr. Co., 2035 Douglas St., $1,420 and $669 respectively; in 83rd St. and Avenue T, from V. Peconi, 152 East 4th St., $4,732 and $1,779 respectively. Noted Mar. 3.

N. Y., St. George — See "Streets and Roads."

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, to Peconi Contg. Co., 152 East 4th St., sewer in Hegeman Ave., $9,491; to A. W. Matarazzo, 1163 61st St., Avenue I $5,752, 62nd St. $2,181, 16th Ave. $2,181, and Dumont Ave. $1,276; to S. Guerriero, 1024 66th St., East 2nd St., $2,390; to R. Iovino, 678 Glenmore Ave., 15th Ave. $3,397, and Jamaica Ave. $460. Grand total $27,128. Noted Feb. 24.

N. Y., Hunter — Bd. Water Supply, Municipal Bldg., New York City, Tannersville sewerage system, here, to Paulsen Constr. Co., 9303 Sutphin Blvd., Jamaica, $367,600. Noted Feb. 10.

N. Y., New York — See "Streets and Roads."

N. J., Asbury Park — Sewerage Comrs. Dist. 5, Ocean Twp., sewerage system at Wanamassa, near here, to A. Fastiggi, Montclair, $138,500. Noted Feb. 24.

N. J., Spring Lake—Mayor and Boro Council, rein.-con. sedimentation tank, etc.,

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Ready for Your Sewer Job On Time!

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And you can be sure of getting pipe of highest quality, built strictly to specifications by concrete pipe specialists.

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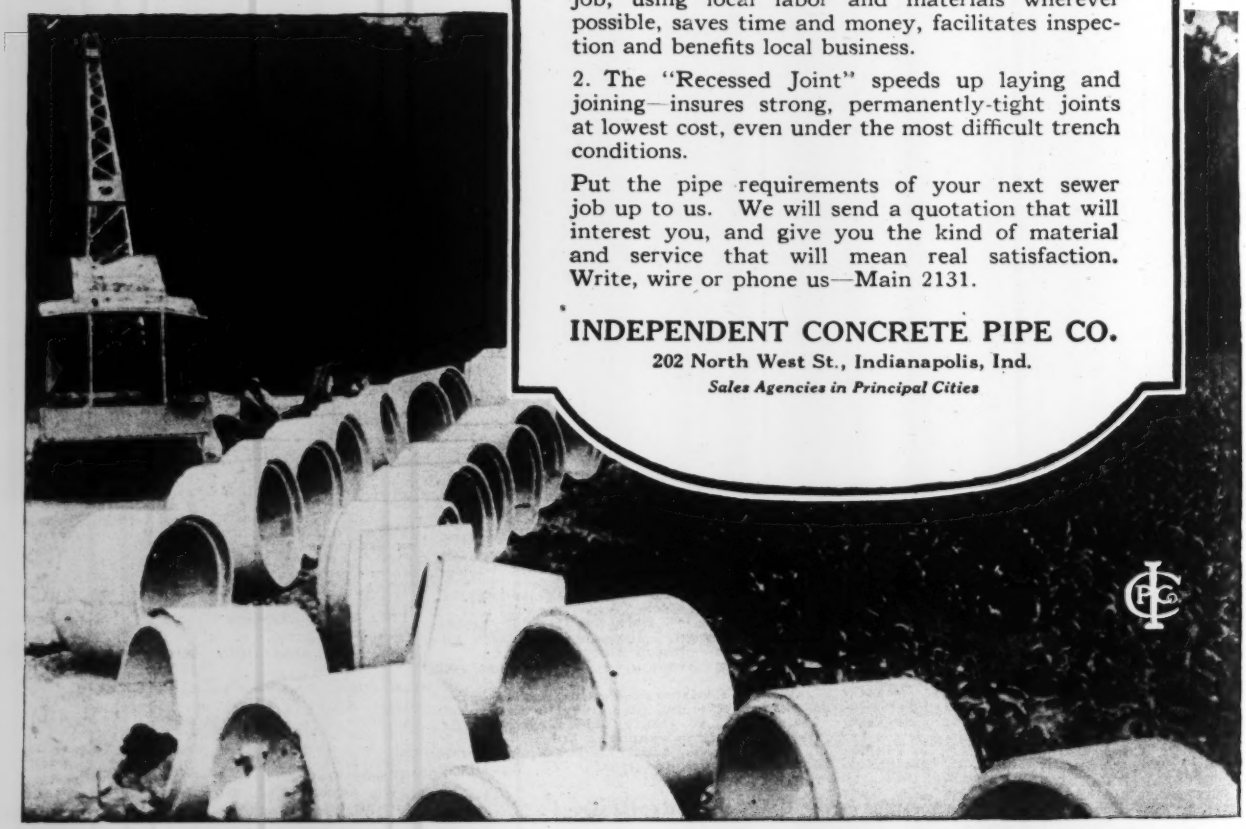

INDEPENDENT PIPE

Reinforced Concrete—for PERMANENT Sewers

Sewers (Continued)

connecting inlet with boro sewerage system and outlet with existing ocean outfall pipe at Ocean and Pitney Aves., to Seaman & Letzkus, Stone Harbor, $23,600. Noted Feb. 17.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to E. F. Bennis, 825 East Washington Lane, branch sewers in Ardleigh St., $9,193, and Sydenham St., $5,065; to P. and A. J. Ellis, 4th and Wyoming Sts., Bristol St., $18,757, and Willow Grove St., $24,770; to J. J. McHugh, 1617 Race St., Bucknell St., $4,338; to J. Venuti, 1812 South 15th St., Callowhill St., $16,032; to P. DeMayo, 509 Washington Sq. Bldg., Castor St., $28,730, 58th St., $12,053, and 20th St., $83,826; to Vattieri & Pontarelli, 523 Rising Sun Ave., Clearview Ave., $11,609, Front St., $33,429, and Sanger St., $3,839; to P. Pinciatti, 4103 Roosevelt Blvd., Horrock St., $6,145; to Donato Delisa, 4842 North Leith Ave., 1st., $5,381; to W. A. Melle & A. E. Perna, 6429 Callowhill Ave., Media Ave., $6,818; to A. Frunzi, 513 High St., Overbrook St., $6,214; to Sabatini & Vallone, 1720 South Chadwick St., Sansom St., $4,404; to M. Cascetti, Real Estate Trust Bldg., 20th St., $5,927; and to A. Bonitatibus, 300 West Mount Pleasant, Warnock St., $1,875. Grand total $222,478. Noted Mar. 10.

Waste Disposal

Proposed Work

Ill., Peoria—Election in April, $150,000 bonds, 2 garbage disposal plants, probably incinerator at North and South ends of city. W. E. Backes, City Hall, engr. Noted Apr. 22.

Bids Desired

O., Hamilton—Mar. 25, by Director Serv., garbage and disposal plant. $45,000. W. Willard, City Hall, engr.

Bids Received

N. Y., Yonkers—City, incinerator plant, from Decarie Incinerator Co., 342 Madison Ave., New York City, $152,000.

N. J., Bloomfield—Town Council, Essex Bldg., Washington St., Mar. 7, double unit incinerator plant, from Hiler Eng. & Contg. Co., 122 Livingston St., Brooklyn, N. Y., $64,900. Noted Feb. 10.

Contracts Awarded

N. Y., Niagara Falls—Garbage incinerator, etc., to Hiler Eng. & Constr. Co., 122 Livingston St., Brooklyn, $128,589.

N. J., Highlands — Mayor and Boro Council, incinerator plant, incl. buildings, radial brick chimney, etc., to Pittsburgh Des Moines Steel Co., 50 Church St., New York City, $24,900. Noted Feb. 3.

Bridges

Proposed Work

Massachusetts—Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, plans reconstructing, etc. 1,042 ft. bridge in Newburyport and Salisbury, to Boston Bridge Wks., 47 Winter St., Boston, $95,459.

Mass., Chicopee—Westinghouse Electric & Mfg. Co., Springfield, plans steel bridge concrete abutements across Chicopee Mfg. Co. Canal. $25,000. F. P. Cobb, City Hall, engr.

Fla., Sarasota — Comrs. Sarasota Co., election Mar. 29, constructing bridge and draw over channel entrance from gulf connecting St. Armands with Longboat Key; also constructing boulevard through Longboat Key connecting with Manatee Co. bridge and highway at north end. $500,000.

Kentucky and Ohio—Maysville Bridge Co., Maysville, Ky., plans railroad and vehicle bridge over Ohio River between Maysville, Ky. and Aberdeen, O.

Ill., Cairo—Cairo Bridge & Terminal Co., H. E. Bovey, Stuttgardt, Ark., soon takes bids 6,000 ft. steel and concrete bridge, 20 ft. over Mississippi River, here. $3,100,000.

Ill., Princeton—See "Streets and Roads."

Kan., Wamego—Pottawatomie Co., Westmoreland, rejected bids Mar. 4, seven 28 ft. span concrete arch bridge or six 150 ft. span high truss steel bridge on Federal Aid Project 243-A, here, for Pottawatomie Co. (Westmoreland) and Wabaunsee Co. (Alma). L. F. Whearty, Westmoreland, co. engr. Noted Feb. 17.

Arkansas—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Ont., Islington—See "Streets and Roads."

Ont., Willowdale — See "Streets and Roads."

Que., Chicoutimi—La Corporation De La Pont de Ste. Anne soon takes bids steel bridge across Saguenay River. $300,000. Noted Nov. 25.

Bids Desired

Mass., Gloucester — Mar. 22, by Comrs. Essex Co., Court House, Salem, reconstructing Steel girder bridge, on Western Ave. $25,000. R. H. Mitchell, comr.

Mass., Seekonk—Mar. 22, by Dept. Pub. Wks., Boston, rein.-con. bridge, here, for Commonwealth of Massachusetts, Boston. $25,000. W. F. Williams, comr.

New York — Mar. 29, by T. F. Farrell, comr. Canals & Waterways, 383 Bway., Albany, removing existing bridges and constructing highway crossings on Erie Canal, Madison and Oneida Counties, Contr. M-22; and in Onondaga Co. east of Syracuse, Contr. M-30; adv. E. N.-R. Mar. 17.

N. Y., New Rochelle—Mar. 30, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, stone and concrete bridge to carry Hutchinson River Parkway over New York, Westchester & Boston Ry. tracks, south of Quaker Ridge Station here. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Mar. 17.

North Carolina—Mar. 29, by State Hy. Dept., Raleigh, rein.-con. bridges, etc. over Green River, on Project 840, Henderson Co., $120,000; on Project 948, Haywood Co., $43,000; on project 676, Rowan Co., $55,000, and Project 730-B, Davie Co., $165,000. L. R. Ames, Raleigh, engr.

O., Cleveland—Mar. 19, by Bd. Comrs. Cuyahoga Co., 29 ft. twin span concrete and steel truss bridge, on East 185th St. $25,000. F. Lander, Court House, engr.

Ill., Decatur — Apr. 12, by City and Town, City Hall, 7th St. Viaduct, 2,600 ft. long, rein.-con. and steel. J. J. Heger, city clk.; adv. E. N.-R. Mar. 17. Noted Jan. 14.

Ia., Grundy Center—Mar. 22, at office Auditor Grundy Co., 5 wood trestle bridges, 1 I-beam bridge on piling abutments and 45 culverts. E. A. Crary, Grundy Center, co. engr.

Ia., Onawa—Mar. 22, at office Auditor Monona Co., four 16 x 20 ft., one 20 x 20 ft., two 24 x 20 ft., and one 32 x 20 ft. I-beam bridges. C. B. Zorn, Onawa, co. engr.

Ia., Sac City—Mar. 24, at office Auditor Sac Co., one 90 x 20 ft. pony truss and three I-beam bridges. M. A. Varley, Sac City, co. engr.

Kan., St. Francis — Mar. 29, by Clerk Cheyenne Co., eight 30 ft. span deck girder bridge, and grading 0.847 mi. Federal Aid Project 378-A. C. B. Simmons, co. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Mar. 8, 5 span 215 ft., rein.-con. and steel bridge over River Des Peres, at Watson Rd., from G. G. Prendergast, 6157 Wagner Ave., $44,244. Engrs. est. $56,400. Noted Feb. 24.

Colo., Pueblo—See "Streets and Roads."

Bids Received

Mass., East Boston (sta. Boston)—City of Boston, Mar. 2, electrically operated Ferry Bridge, North Ferry, here, from J. E. Ogden Co., 147 Cedar St., New York City, $140,500, foundation for same, from W. H. Ellis & Son, 479 Meriden St., $26,789. Noted Feb. 17, under "Unclassified."

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., Albany, Mar. 9, completing approach and anchorages, and constructing superstructure Mid-Hudson Bridge, here, Contr. 5, from Amer. Bridge Co., Inc., 30 Church St., New York City, $2,963,259. Engrs. est. $3,690,000. Noted Jan. 27.

Tex., San Antonio — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Contracts Awarded

Pa., Bristol—Comrs. Bucks Co., 1 span, 350 ft. reinforced concrete filled bridge over canal, at Beaver St., to M. Y. Meeley & Co., Somerton, $37,200.

Pa., Pittsburgh—City Council, Mt. Washington Roadway Bridge, 50 ft., rein.-con. over Castle Shannon Incline and Sycamore St., to Vang Constr. Co., Bessemer Bldg., $304,958. Noted Feb. 3.

Wisconsin—See "Streets and Roads."

Tex., Lubbock—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, **(F.A.P. means Federal Aid Project, S.A.P. State Aid Project and e.e. engineers estimate)**, 2 bridges on S.A.P. 348, Grady Co., to Boardman Co., Maple and Hawk Sts., Oklahoma City, $75,367 e.e. $80,000; 1 bridge on S.A.P. 363-B, Major Co., to A. R. Mackey, Greeley, Colo., $33,956 e.e. $35,000; bridge on F.A.P. 199-I, Payne Co., to Goody & Epperson, Pryor, $32,115 e.e. $40,000; bridge on S.A.P. 337, Payne Co., to Pioneer Constr. Co., 270 Glover Bldg., Kansas City, Mo., $135,759 e.e. $150,000; and 4 bridges on F.A.P. 187-H, Stephens Co., to Stephens County Constr. Co., Marlow, $75,424 e.e. $80,000. Grand total $352,621. Noted Jan. 13.

Colorado—See "Streets and Roads."

Colo., Denver—Dept. Impvts. & Parks, plate girder bridge with concrete foundation across South La Platte River, on West 46th Ave., to M. E. Carlson, 617 Exch. Bldg., $55,738. Noted Feb. 3.

Dams

Proposed Work

N. Y., Conklingville—Bd. Hudson River Regulating Dist., 44 Howard St., Albany, making plans 700,000 cu.yd. fill semi-hydraulic type dam, creating Sacandaga Reservoir, at 6 mi. above confluence of Sacandaga and Hudson Rivers, near here. E. H. Sargent, Albany, ch. engr.

Tex., Brownwood—Humble Oil & Refining Co., Humble Oil Co. Bldg., Houston, making plans dam over Bark Creek in Brown Co., for diversion 280 acre ft. water annually. $75,000. Private plans.

Tex., Estelline—See "Buildings—Industrial."

Bids Desired

N. J., Newark—See "Waterworks."

Bids Received

Ore., Portland—See "Waterworks."

Contracts Awarded

N. Y., Potsdam—See "Buildings—Industrial."

Railways

Proposed Work

South Dakota—Chicago & Northwestern Ry. Co., W. J. Towner, ch. engr., West Jackson and Franklin Sts., Chicago, Ill., plans 3.5 mi. branch extension from point 3 mi. south of Belle Fourche, Butte and Lawrence Counties, here.

Arkansas—Fordyce & Princeton R.R. Co., plans 5 mi. railroad in Dallas Co. providing transportation facilities for future operations of Fordyce Lumber Co. $36,000.

Canada — Canadian Natl. Rys., C. S. Gzowski, ch. engr. (of constr.), Montreal, Que., has submitted to Parliament for approval the following program: 34.5 mi. St. Felicien to Mistassini River, $2,132,000, and 34.5 mi. Herbertville to Savame Falls, $2,132,000, both Lake St. John Dist., Que.; 7.9 mi. Grand Mere to East Burrills, Que., $1,683,000; 16.7 mi. Pilkington to Niagara Junction, Ont., $1,164,000; 22 mi. Willowbrook northwesterly, $616,000, 22.7 mi. Weybourn to Radville, $570,000, 100 mi. Sturgis to near Peesane, $3,395,000, 19 mi. Peesane northerly, $570,000, 37 mi. Shellbrook or near Parkside, westerly, $1,200,000, 35.6 mi. Tustleford S. E. Mile 67 to between Hafford and Richard, $1,130,000, 29.5 mi. near Spruce Lake westerly, $990,000, 32 mi. Hudson Bay Junction southerly to meet proposed Sturgis-Peesane Line, $1,088,000, all foregoing in Saskatchewan; 19 mi. Elk Point easterly, $749,000, 38 mi. Ashmont to Bomnyville, $1,415,000, and 11 mi. Bretona to Chover Bar, $319,000, all in Alberta.

Bids Desired

Missouri—See "Contracts Awarded."

Contracts Awarded

Missouri—Terminal R.R. Assn. of St. Louis, H. J. Pfeifer, ch. engr., 18th and Market Sts., St. Louis, will clear, grade and install tracks and main line connections for 200 car storage and terminal yards, Cass Ave., Main, 2nd and O'Fallon Sts., in St. Louis, by day labor.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Tex., Laredo — G. Blount & Swift, Nacogdoches purchased 80,000 acres land in Webb Co. and making preliminary plans large irrigation system, incl. pumping equipment, etc. $3,000,000. Private plans.

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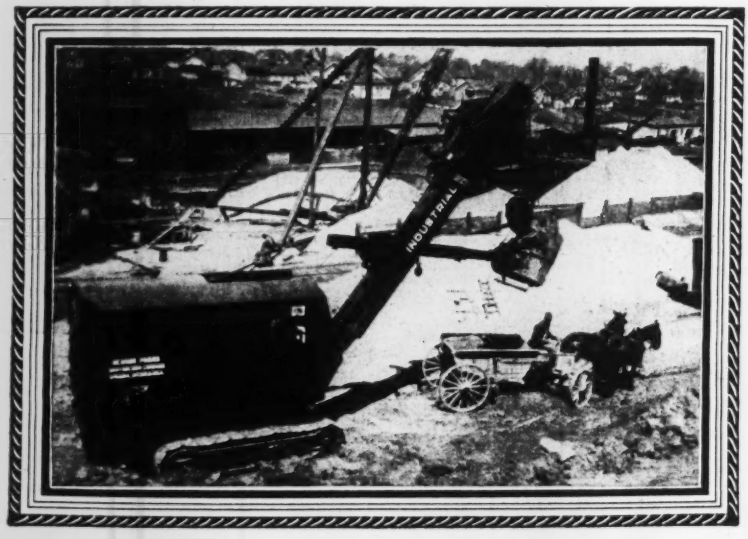

40% ahead of its time—on contract

WHERE TIME IS MONEY, THE INDUSTRIAL PAYS

ANOTHER user writes, "The contract on which the Industrial is working is about 40% ahead of its time, due largely to the Industrial being able to go ahead, preparing the right of way in order that the other work will not be interfered with."

That's what every contractor wants. Not equipment that merely keeps up the schedule but machines that keep well ahead of it. The Industrial affords protection against costly delays where the time element is a factor.

Significant in the securing of these results is the sturdy construction, patented steering arrangement and all around ease of operation of the Industrial.

Another feature is its adaptability to various kinds of work and speed of operation.

Our engineering service covers more than just suggesting the type of Industrial Crawler best suited for your work. Periodical inspection of your equipment by one of our engineers means better service and more of it.

Bulletin covering the construction and operation of the DC Crawler sent at your request

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San Francisco, Calif. Monadnock Building
St. Louis, Mo. Railway Exchange
Tampa, Florida 823 S. Oregon Ave.

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

Tex., San Antonio—J. E. Graham, 408 East Quincy St., plans irrigating 3,071 acres land in Cameron Co. water to come from Fresnos Resaca, incl. 4 large pumping plants. $100,000. Private plans.

Tex., Winter Haven — C. Zendler purchased 765 acres land, and making plans irrigating ditches, laterals, mains, etc. $50,000.

Bids Desired

N. Y., Long Island City—Mar. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., public beach along ocean front, incl. bulkheads, groynes, jetties, breakwaters, filling with sand, etc., from Beach 25th to Beach 54th Sts.

Va., Norfolk—Mar. 24, by Bd. Drainage Comrs. Norfolk Co., J. G. Wallasett, chn., drainage improvements in Sunray D. D. 2, incl. 10.5 mi. drainage canal, 145,020 cu.yd. excav., clearing 1 mi. right-of-way 80 ft. wide through wooded land, 14 concrete culverts, etc.

La., Shreveport — Mar. 23, by Bossier Parish Levee Dist., 1st Natl. Bank Bldg., 3,000 ft. 3 row permeable pile training wall for bank protection at Cat Island Bend, left bank Red River, 20 mi. above here. Bd. State Engineers, 213 New Orleans Court Bldg., New Orleans, engrs.

Ind., Lebanon—Mar. 24, by J. W. Fulwider, supt. constr., 102½ North Lebanon St., 200,000 yd. dredged and tile drain.

Ill., Chicago—Mar. 22, by City, Room 406, City Hall, backfilling ditches made by division water pipe extension during period ending Dec. 31, 1927. A. A. Sprague, comr. Pub. Wks.

Ia., Onawa—Mar. 22, at office Auditor Monona Co., 0.75 mi., 21,764 cu.yd. excavation work on Blencoe-Preparation Co. Rd., Sect. C, and 80,300 cu.yd. Turpin-Mapleton Rd., Sect. A. C. B. Zorn, Onawa, co. engr.

Tex., Brownsville—Mar. 22, at office W. O. Washington, engr., Brownsville, 160 mi. open drains, 10 mi. pipe drains serving approximately 30,000 acres land, for El Jardin Impvt. Dist., Cameron Co. $600,000.

Calif., Oroville — Mar. 25, by W. J. Monro, secy. Oroville-Wyandotte Irrigation Dist., 2,700 lin.ft. Armco Iron riveted slip joint pipe and fittings or machine-banded redwood pipe, also pipe laying, trenching, backfill, etc.

B. C., Steveston—Mar. 21, by Dept. Pub. Wks., Ottawa, Ont., extending 2,000 ft. Fraser River jetty. $40,000. C. C. Woosfold, P. O. Bldg., New Westminster, dist. engr.

Bids Received

N. J., Jersey City—Bd. Comrs. of Mayor and Alderman, City Hall, Mar. 8, constructing bulkhead at Droyers Point, from Stillman Delehanty & Ferris, Inc., 1 Exchange Pl., $188,500. Noted Apr. 1.

Ill., Savanna—See "Contracts Awarded."

Tex., Brownsville—Cameron Co., flood control work in Units 1 to 12, Div. B, Arroya Colorado Floodway, 700 acres clearing, 2,000,000 yd. levees, etc., also Units 1 to 14, Div. A, 8,000 acres clearing, 3,000,000 yd. levees, etc., from Trinity Farm Constr. Co., Waxahachie, $154,500 and $467,457 respectively.

Contracts Awarded

O., Paulding—Comrs. Paulding Co., constructing Co. Ditch 4, 70,975 cu.yd. excav., etc., in Union & Tulley Twps., Van Wert Co., and Benton, Blue Creek, Latty and Washington Twps., Paulding Co. known as Prairie Creek, to C. Haines & Son, Greenville. Noted Jan. 27.

Ill., Savanna—Carroll Co. Levee & D.D., c/o County Clerk, to Wapello Constr. Co., Wapello, Ia., hydraulic work, incl. 8,000 cu.yd. filling at $0.40 per cu.yd., and 28,000 cu.yd. at $0.29. Received bids two 4 in. pumping units, from Kremer & Hog, Minneapolis, Minn. $9,199, and 2 units, includes (1 unit discharge pipes and control), from A. Garrett, Muscatine, Ia., $7,546.

Tex., San Antonio — Flood prevention work on river cut-off, 300 ft. channel, 70 ft. wide and 25 ft. deep, rein.-con. and steel, to Walsh & Burney, c/o 928 North Flores St., $162,727. Noted Feb. 10.

Streets and Roads

Proposed Work

Massachusetts—Worcester Co. (Worcester) and Suffolk Co. (Boston) making preliminary surveys paving Old Turnpike Rd. from Worcester to Boston. $3,000,000. A. N. Dean, State House, Boston, ch. engr.

J. A. Johnston, 476 Main St., Worcester, assistant engr.

Mass., Everett (Boston P. O.)—Plans asphalt paving, etc. ½ mi. Buckman St., 45 ft., $25,000; also Tilestone, Nichols, Schools and Union Sts., $30,000. Address City Engineer.

Mass., Newton (Ind. br. Boston)—City, E. O. Childs, mayor, City Hall, plans grading field, Walnut St. near high school. $25,000 appropriated. Private plans.

Mass., West Roxbury (sta. Boston)—Dept. Pub. Wks., Boston, J. H. Sullivan, comr., plans laying out and constructing St. Joseph and Woodman Sts. as highway, here. $25,000.

New York—State Hy. Dept., Albany, plans repairing and paving Hudson River Bridge from Albany to Rensselaer. $80,000 appropriated.

N. Y., Conklingville—Bd. Hudson River Regulating Dist., 44 Howard St., Albany, takes bids in April, grading, graveling and bituminous paving highways around shore proposed Sacandaga Reservoir, Contrs. 1, 2 and 3, here E. H. Sargent, Albany, ch. engr.

N. Y., Syracuse—Making plans paving and resurfacing 4,260 sq.yd. East Fayette St., $76,520, 4,090 ft. Croly St., $37,670; 5,360 sq.yd. Emma St., $43,030; and Blossom Rd., $12,500. N. F. Pitts, Jr., City Hall, engr.

N. Y., Syracuse — Plans widening and sheet asphalt or concrete paving 9,000 ft. East Genesee St. $249,310. N. F. Pitts, City Hall, city engr.

N. J., Newton—Freeholders Sussex Co. making plans concrete paving 1.25 mi. Hamburg Ave., and 1,000 ft. Sparta-Woodport Rd. H. Snook, Newton, engr.

Pa., Pittsburgh—Soon takes bids improving Irwin Ave., between North Ave. and Brighton Rd. $143,000. Bureau of Engineering, Dept. Pub. Wks., engrs.

W. Va., Wheeling—Soon takes bids vitr. brick paving portions Warwood Ave., 2 streets and 2 alleys. $71,000. H. Arbonz, Wheeling, engr.

Fla., Sarasota—See "Bridges"

Miss., Jackson—Hinds Co. plans election $327,000 bonds, improving various roads. W. B. Montgomery, Court House, engr.

Tenn., Alton Park — Election Mar. 31, $175,000 bonds, improving streets, $15,000 bonds sewers, and $10,000 bonds park improvements.

Ky., Paducah — Soon takes bids constructing various streets and sidewalks. $60,000. E. R. Bradshaw, city engr.

O., Cleveland—Bd. Comrs. Cuyahoga Co. take bids this summer widening Cedar Hill Rd. $100,000. F. Lander, Court House, engr.

O., Columbus—Bd. Comrs. Franklin Co., O. Moore, clk. soon takes bids grading and waterbound macadam or bituminous macadam paving 0.93 mi. Indianola Ave., $23,000; grading and waterbound macadam paving 3,863 ft. Kilbourne Ave. and Purdue Rd., $22,500, also 6.46 mi. Kropp, Township Line and Ferris Rds., $126,000. C. C. Lattimer, co. surv.

O., Martins Ferry—City Comn. soon takes bids paving, etc. Hanover St., etc. $125,000. A. Lundberg, Martins Ferry, engr. Noted Dec. 30.

O., Shaker Heights (mail Cleveland)—O. P. and M. J. Van Sweringen, Marshall Bldg., and Bd. Comrs. Cuyahoga Co., plan Super-Highway, 600 ft. wide, extension of Shaker Blvd. into Gates Mill and Chagrin Falls Rds., incl. rapid transit traction line. $1,000,000 or more. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs. Noted Feb. 17.

Mich., Detroit—Making plans concrete or medina curbing, grading, and 3½ in. sheet asphalt on 8 in. concrete paving 137,250 sq.yd. 30 streets. $677,370. P. A. Fellows, City Hall, city engr.

Ill., Decatur—Plans grading and rein.-con. paving 1 mi. Township Rd., 18 ft. $25,000. C. Becker, city comr. Engineer not selected.

Ill., Galesburg—Plans grading, curbing and vitr. brick on concrete paving 6 blocks Monroe and Grove Sts., 30 ft. $30,480. A. L. Richey, City Hall, engr.

Ill., Princeton—Bureau Co. plans grading, bridging, graveling, etc., 5 mi. 15-D, State Aid Roads, 18 ft. $29,000. R. L. Schoenberger, Princeton, engr.

Ill., Wilmette—Making plans widening and concrete repaving 1.5 mi. Main St., 52 ft., $250,000; concrete repaving 1 mi. Forest Ave., $97,400; and paving various streets in South West Section, $86,000. C. N. Roberts, 105 North Clark St., Chicago, engr.

Ia., Nevada — Story Co. making plans graveling 23 mi. various roads. S. Steigerwalt, co. engr.

Ia., Newton—Plans alternate paving types 22 blocks various streets. $40,000. V. H. Lear, city engr.

Kan., Lyndon—Osage Co. making plans grading, and 6 in. concrete paving 6 mi. Federal Aid Project 264, Capital Highway. F. C. Healea, Lyndon, co. engr.

Kan., Newton—Harvey Co. plans concrete paving 3.644 mi. Federal Aid Project 329-B, U. S. Highway 81. R. J. Justice, Newton, co. engr.

Arkansas—State Hy. Dept., Little Rock, soon takes bids approaches to Harahan Viaduct, on Federal Aid Project 300-B, Crittenden Co., incl. concrete pile trestles with concrete floors on 2.75 mi. embankment. $471,000. O. L. Hemphill, highway engr.

Tex., Arlington—Defeated $25,000 bonds, paving various streets. Address Mayor. Noted Feb. 3.

Tex., Beeville—Making plans paving 16 blocks streets in downtown district. $35,000. R. Fenner, Beeville, engr.

Tex., Brownsville—Takes bids latter part March or Apr. 1, permanent paving 44 blocks business and residential streets. $200,000. A. Tamm, city engr.

Tex., Claude—Armstrong Co. election soon hard paving 35 mi. main unpaved highways. $600,000. Address County Judge.

Tex., Cuero—DeWitt Co. soon take bids grading, bridging and waterbound macadam paving 9.25 mi. Highway 109. $246,000. W. H. Koether, Cuero, engr.

Tex., Franklin—Robertson Co. soon takes bids 2 in. bituminous on 8 in. macadam paving 4.67 mi. Highway 6. $180,841. A. R. Leckie, Franklin, engr.

Tex., Hillsboro—Hill Co. election soon $125,000 bonds grading and surfacing 18 mi. Road Dist. 19. Address O. Culbertson, Hillsboro, co. judge.

Tex., Lubbock — Lubbock Co. making plans grading and bridging 9 mi. Highway 53. $37,000. J. W. Alger, Lubbock, engr.

Tex., Matador—Motley Co. voted $250,000 bonds, graveling 40 mi. main unpaved highways. Addresss C. L. Glenn, Matador, co. judge.

Tex., San Antonio—Guardian Loan & Trust Co., c/o Central Trust Bldg., making plans developing 60 acres, incl. paving $40,000, sewers $25,000, waterworks, $20,000, and lighting $15,000. Private plans.

Tex., San Antonio—Making preliminary plans extending 2 blocks Travis St. from North Alamo to Nacogdoches Sts. $150,000. I. Ewig, city engr.

Tex., Seymour—Baylor Co., making plans bituminous paving 12.97 mi. Highway 24 from here to Knox Co. line $51,400, and 13.67 mi. Highway 30 from here to Throckmorton Co. line $201,750; also hard paving 20.5 mi. Highway 24 from here to Archer Co. line, $305,000. J. G. Rollins, Seymour, engr.

Okla., Arapaho—Plans election $1,000,000 bonds, improving 80 mi. various roads, 30 ft. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Calif., Pasadena—Plans election $170,000 bonds, curbing, walks, widening and paving, etc. Colorado St.

Ont., Islington — Etobicoke Twp. plans grading, bridging, gravel and macadam paving township roads. $125,000. H. McNichol, Islington, engr.

Bids Desired

N. Y., Brooklyn—Mar. 23, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing, etc., East 8th St.; grading, curbing, sidewalks and asphalt on 6 in. concrete paving Colonial Rd., Prospect Park Southwest, 7th Ave., East 10th and 3rd Sts.

N. Y., Long Island City—Mar. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc., Willets Point Blvd.; grading and granite block paving Creek St.; and sheet asphalt on concrete paving, etc., Beach Channel Dr., Hoyt Ave. and 56th (3rd) St.

N. Y., New York—Mar. 23, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, sidewalks, etc. in Bradford Ave.; sheet asphalt on concrete paving Havermeyer Ave.; granite block on sand paving Leggett and Randall Aves.; also sewers in Spofford and Bryant Aves.

N. Y., New York — See "Streets and Roads."

N. Y., St. George — Mar. 23, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, concrete curbing, guttering, sidewalks on west side Oakland Ave.; and sidewalk on Lafayette Ave.

New Jersey—Apr. 4, by State Hy. Comn., Trenton, grading and double line rein.-con. paving 68,212 sq.yd. Route 7 Sect. 5A and 6A, from Freehold to Manalapan, Monmouth Co.; and 81,017 sq.yd. Route 7, Sect. 7A, from Hightstown to Manalapan, Mercer, Middlesex and Monmouth Counties. A. L. Grover, secy.; adv. E. N.-R. Mar. 17. Noted Mar. 3.

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An I-R Paving Breaker will replace from twelve to fifteen hand laborers.

Send for a free copy of "100 and 1 Ways to Save Money with Portable Compressors." It contains 140 pages of illustrations and comparative cost data gathered from actual jobs in the field.

I-R Products for use with Portable Compressors—

Many kinds of labor-aiding devices are available for use with Ingersoll-Rand Portable Compressors. Among these are powerful "Jackhamer" Drills, Paving Breakers, Backfill Tampers, Clay and Trench Diggers, Portable Hoists, and Pneumatic Tools.

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"How many of us would have predicted twenty years ago that there would soon be tools like this to save the labor of ten or fifteen workmen? It's just another instance of how machines have taken the place of manual labor, while making possible a higher scale of wages than ever before."

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Streets and Roads (Continued)

N. J., Blue Anchor (mail Waterford Works)—Mar. 24, by Winslow Twp. Com., grading and gravel surfacing 23,296 sq.yd. Cedar Brook-New Brooklyn Rd. Remington & Vosbury, 509 Cooper St., Camden, engrs.

N. J., Mount Rose — Mar. 22, by Freeholders Mercer Co. (Trenton), improving Rosedale-Mount Rose Rd., 15,250 sq.yd. 8 in. rein.-con. paving, 6,650 sq.yd. 8 in. concrete paving and 3,100 tons broken stone. H. F. Harris, Trenton, engr. Noted Apr. 29.

Pa., Monessen—Mar. 23, by City Clerk, brick on 6 in. concrete paving, etc., 2,100 sq.yd. various streets. $25,000. City Engineer, engr.

Md., Baltimore—Mar. 23, by Bd. Awards, grading and concrete paving alleys listed in Alley Contr. 123. S. Purcell, City Hall, highways engr.

Md., Baltimore—Mar. 23, by Bd. Awards, sheet asphalt paving 8,510 sq.yd. streets listed in Contr. 388; and concrete paving 6,800 sq.yd. streets listed in Contr. 389. S. Purcell, City Hall, highways engr.

W. Va., Charleston — Mar. 21, by City Comm., grading and brick paving 18,000 sq. yd. Bigley Ave. and 13 various streets. $125,000. H. L. Campbell, Charleston, engr.

W. Va., Morgantown—Apr. 6, by Monongalia Co. Court, improving 16.42 mi. 7 projects in Grant Dist. W. S. Price, co. road engr.; adv. E. N.-R. Mar. 17.

North Carolina—Mar. 29, by State Hy. Comm., Raleigh, grading, concrete or asphalt paving 2.003 mi. Project 5780, Randolph Co. $50,000, 9.808 mi. Project 548, Hoke Co. $180,000, 4.764 mi. Project 498, Warren Co. $125,000, 12.212 mi. Project 401, Chatham Co. $331,000, 10.505 mi. Project 3980, Robeson Co. $219,300, 9.685 mi. Project 2790, Sampson Co. $221,000, 12.834 mi. Project 6492, Mecklenburg Co. $330,000, 8.373 mi. Project 620, Cabarrus Co. $212,600, and 3.45 mi. Project 9090, Buncombe Co. $90,000; clearing, grading, etc., 4.144 mi. Project 948, Haywood Co. $56,000, 10.747 mi. Project 1991, Wilson Co. $43,300, and 5.673 mi. Project 426, Franklin Co. $28,500; clearing, grading, topsoiling, etc., 4.3 mi. Project 7250, Caldwell Co. $49,200, 14.516 mi. Project 144, Halifax Co. $83,700, and 16.11 mi. Project 336, Cumberland Co. $81,000. L. R. Ames, Raleigh, engr.

Fla., Gainesville—Apr. 6, by Bd. Bond Trustees, Special Rd. & Bridge Dist. 1, Court House, grading, grubbing and 6 and 8 in. compacted lime paving 140,900 sq.yd. various roads. H. L. Baker, dist. engr.

Fla., Green Cove Springs—Mar. 25, by City Comrs., concrete curbing and Florida limerock paving 14,000 sq.yd. various streets, also 8,800 lin.ft. 4 in. concrete sidewalks on various streets. Shands Eng. Co., Green Cove Springs, engrs.

Ala., Mobile—See "Sewers."

Miss., Greenville — Mar. 29, by Bd. Supervs. Washington Co., grading, hardsurfacing, etc., 4.8 mi. Greenville-Mississippi River Rd., Federal Aid Project 49. $120,000. H. C. Dietzer, Jackson, engr.

La., Jennings—Mar. 29, by City Comm., grading, curbing, guttering and rein.-con. paving 28,100 sq.yd. various streets. M. Bernard, Crowley, engr.

O., Euclid—Mar. 21, by Village, paving Dell Rd. and Edgecliff Dr.; also grading and sidewalks Pasnow Ave., Lake Shore Blvd., and Dell Rd. To exceed $25,000. F. A. Thomas, Town Hall, engr.

Ind., Jasper—Mar. 30, by City, asphalt or concrete paving 30,000 sq.yd. various streets. H. T. Watts, Vincennes, civil engr.

Ind., South Bend—Apr. 4, by Comrs. St. Joseph Co., constructing Brummitt Rd., Olive Twp., $23,714, Milligan Rd., Clay Twp. $6,122, Wm. Hooten Rd., Olive Twp. $18,780, and M. J. Laing, Penn Twp. $10,628; concrete paving Wm. Leman Rd. $91,750, and W. C. Harder Rd. $119,550. C. Sedgwick, South Bend, aud.

Ind., Vincennes—Mar. 28, by Bd. Pub. Wks., City Hall, paving Dubois St. from 1st to 11th Sts. E. J. Julian, city clk. Noted Mar. 10.

Ind., Washington — Apr. 5, by Comrs. Davies Co., constructing Alfred Sims Rd. $45,834. R. M. Moren, Washington, aud.

Mich., Corunna—Mar. 24, at office Road Comrs. Shiawassee Co., graveling approximately 7¼ mi. Covert Dists. 73, 74 and 75.

Mich., Grand Rapids—Mar. 22, at office Bd. Rd. Comrs. Kent Co., 1500 Scribner Ave. N. W., one course graveling 3.289 mi. road in Walker, Alpine and Plainfield Twps. W. R. Townsend, chn.

Mich., St. Johns — Mar. 25, by Rd. Comrs. Clinton Co., graveling 9 mi. A. D. Road 23, 12 ft. W. G. Conklin, chn.

Ill., Peoria—Mar. 24, by Road & Bridge Comn., graveling 8.5 mi. Peoria State Aid Roads, 12 ft. $25,000. W. E. Emery, Court House, engr. Noted Feb. 24.

Wisconsin—Mar. 23, by State Hy. Comn., T. W. Reilly, div. engr., Court House, Richland Center, improving 14.04 mi. Richland Center-Viola Rd., Richland Co., S.T.H. 56, State Project 9203, 91,013 cu.yd. earth, 14,967 cu.yd. loose rock and 11,424 cu.yd. solid rock excav., 447 cu.yd. borrow, 1,130 cu.yd. channel change, 18,900 ft. intercepting ditch, 1,333 sq.yd. concrete paving, 19,639 cu.yd. crushed rock, Option A, entire project, Option B, entire project crushed rock surfacing, and Option C, crushed rock surfacing only, and 8.55 mi. Mt. Sterling-County Line Rd., Crawford Co., State Trunk Highway 27, State Project 9235, 68,962 cu.yd. earth, 1,771 cu.yd. loose rock and 1,458 cu.yd. solid rock excav., 5,050 ft. intercepting ditch, 15,381 cu.yd. crushed rock surfacing, 1,282 cu.yd. crushed rock stock piles, Option A, entire project, Option B, entire project except crushed rock surfacing and stock piles, and Option C, crushed rock surfacing and stock piles only.

Wisconsin—Mar. 25, by State Hy. Comn. and F. F. Mengel, div. engr., Div. 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, (**F. A. P. means Federal Aid Project, S. P. State Project, C. T. H. County Trunk Highway, and S. T. H. State Trunk Highway**), grading, concrete paving, etc., 150,196 sq.yd. S. T. H. 10, F. A. P. 423-A, Marquette Co.; 105,301 sq.yd. S. T. H. 13, S. P. 4386, and 60,824 sq.yd. C. T. H. A, S. P. 4387, both Marathon Co. H. J. Kuelling, Madison, state highway engr.

Wis., Ellsworth—Mar. 22, by State Hy. Comn., W. F. Baumgartener, div. engr. and C. F. Kenall, highway comr. Pierce Village Hall, grading and concrete paving, etc. 10,230 sq.yd. Main St.

Wis., Madison—Mar. 24, by Dane Co. Hy. Com. grading and concrete paving, etc. 123,228 sq.yd. Sauk City-Madison Rd., Job D-202, State Trunk Highway 12; graveling 3.75 mi. Job. D-149-06, town of Bistol, 3.5 mi. Job D-102-04, town of Blooming Grove, 4,800 cu.yd. Job. S.G.M.-1 and 3,000 cu.yd. S.G.M.-4; also crushed rock surfacing 5,000 cu.yd. County Propect D-245-24 and D-246-24, town of Primrose. J. R. Caldwell, highway comr.

Iowa — Mar. 29, by State Hy. Dept., Ames (**P.P. means Primary Project and F.A.P. means Federal Aid Project**), grading 0.23 mi. P.P. 467, Lee Co., 1.67 mi. F.A.P. 267, Wright Co., 1.03 mi. P.P. 82, and 2.99 mi. F.A.P. 216, both Worth Co., 12 mi. F.A.P. 145, Guthrie Co., 8.96 mi. P.P. 358, Clayton Co., 3.55 mi. P.P. 404, Warren Co., and 4.98 mi. P.P. 476, Lucas Co.; graveling 12.92 mi. F.A.P. 260, Marion Co., and 5.69 mi. F.A.P. 274, Butler Co. F. R. White, highway engr.

Ia., Adel — Mar. 24, at office Auditor Dallas Co., improving 7.427 mi. Primary Project 250-B, 4,159 cu.yd. gravel surfacing, 54,000 units ½ mi. haul, and 1,200 cu.yd. stripping pit.

Ia., Grundy Center — Mar. 22, at office Auditor Grundy Co., grading 62,500 cu.yd., and graveling 14,000 cu.yd. various roads. E. A. Crary, Grundy Center, co. engr.

Ia., Muscatine—Mar. 23, at office Auditor Muscatine Co., graveling 3.68 mi. and grading 117,000 cu.yd. various roads. F. P. G. Halbfass, Muscatine, co. engr.

Ia., Onawa—Mar. 22, by Auditor Monona Co., grading 80,300 cu.yd. Turin-Mapleton Rd., Sect. A. C. B. Zorn, Onawa, co. engr.

Ia., Ottumwa—Mar. 30, by City Clerk, grading, concrete paving, etc., 10,366 sq.yd. various streets. Cook & Brown, Ottumwa, engrs.

Minn., Madison—Mar. 22, by A. Hjelmeland, aud. Lac qui Parle Co., grading, etc., 82,120 cu.yd. Job 26.06, Div. B. $25,000.

Minn., Thief River Falls—Mar. 22, by P. S. Pederson, city clk., paving, etc., approximately 1 mi. Main Ave. S. and Riverside Ave. $35,000. W. B. Stevenson, Fargo, N. D., engr. Noted Feb. 10

Kan., Larned—Apr. 8, by Clerk Pawnee Co. grading, sand clay surfacing, etc. 11.646 mi. Federal Aid Project 281-A, 28 ft., incl. 5,820 ft. guard fence, 19,035 ft. reinforcing, 1,972 ft. rein.-con. pipe, etc. L. D. Harris, Larned, co. engr.

Mo., Kansas City—Mar. 28, by Bd. Pub. Wks., grading and various types paving, etc. Oak St. between 11th and 20th Sts. To exceed $25,000. R. Wadell, City Hall, engr.

Okla., Holdenville—Mar. 21, by J. Kirk, city clk., grading, curbing, guttering and vertical fibre brick resurfacing 30,200 sq.yd. Main St. and Creek Ave. $65,000. C. H. Edge, Holdenville, engr.

Okla., Seminole — Mar. 22, by E. Magruder, city clk., grading, curbing and vertical fibre brick paving 12,700 sq.yd. Main St., $54,661; also curbing and concrete paving 10,400 sq.yd. 2nd St., $41,760. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 3.

Okla., Shidler—Mar. 22, by J. C. Ifland, city clk., grading, curbing and concrete paving 7,840 sq.yd. South Cosden Ave. $31,600. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 3.

Okla., Tulsa—Apr. 1, by R. J. Moore, city aud., paving streets in Paving Dists. 774 to 780 (inclusive). $75,000. C. Schultz, city engr.

Colo., Glenwood Springs — Mar. 24, by State Hy. Dept., Denver, gravel surfacing 3.807 mi. Federal Aid Project 143-A, Garfield Co. L. D. Blauvelt, State Office Bldg., Denver, engr.

Colo., Pueblo—Mar. 21, by Comrs. Pueblo Co., clearing, bridging, clay surfacing 4.385 cu.yd. Beulah-Rye Forest Service Rd. $30,000. H. E. French, Federal Bldg., Forest Serv. engr. Noted Mar. 10.

Idaho, Pocatello—Mar. 26, by City and State Commissioner Pub. Wks., City Hall, constructing 4.507 mi. road between Pocatello and east line Fort Hall Indian Reservation line west, 14,940 cu.yd. earth excav., 15,145 sq.yd. overhaul, 3,358 cu.yd. crushed gravel shoulders, and 47,354 sq.yd. concrete paving, etc.; also by City, 0.242 mi. same road within city limits, 693 cu.yd. earth excav., 6,282 sq.yd. overhaul, 202 cu.yd. crushed gravel shoulders, and 2,762 sq.yd. concrete paving, etc. P. B. Wilson, Pocatello, dist. engr.

Nevada—Mar. 23, by State Hy. Comn., Carson City, concrete paving 3.8 mi. Verdi-California-Nevada State Line Rd. G. W. Borden, Carson City, highway engr.

Washington — Mar. 29, by State Hy. Comn., Olympia, clearing, grading, etc., 67,000 cu.yd. State Rd. 12, Palix River Sect., Pacific Co.; and grading, concrete paving, etc., 167,000 sq.yd. State Rd. 1 between King Co. Line and Everett, Snohomish Co. J. W. Hoover, highway engr.

Calif., Los Angeles—Bd. Pub. Wks., taking bids 8 in. concrete paving, etc., 168,395 sq.ft. La Cinega Blvd., and 6 in. concrete paving, etc., 450,000 sq.ft. Bakman Ave. J. Shaw, City Hall, engr.

Calif., San Diego—Mar. 28, by Common Council, curbing, sidewalks, and 1½ in. asphaltic concrete on 5 in. concrete paving 207,736 sq.ft. Georgia St.; curbing, sidewalks and 6 in. concrete paving, etc., 573,777 sq.ft. Emerald, Cass Sts., etc. A. H. Wright, city clk.

Ont., Kitchener—Mar. 23, by S. Cassel, County Bldgs., concrete or asphaltic concrete paving 10,560 sq.yd. and asphaltic concrete paving 2,640 sq.yd. Erb St. E.; concrete paving approximately 39,960 sq.yd. County Rd. 5, Wellesley Village, Wilmot and Phillipsburg Twps., 10,560 sq.yd. County Rd. 12, Sniders Corners, and 3,000 sq.yd. County Rd. 13, Breslan Village. $125,000. L. S. Lichty, County Bldgs., engr.

Bids Received

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Mar. 9, from D. J. McCoy Asphalt Co., Avenue U and East 57th St., sheet asphalt paving East 26th St. $7,355, and Elmore Pl. $13,239; from Brooklyn Alcatraz Asphalt Corp., 407 Hamilton Ave., East 8th St. $36,897, Ovington Ave. $12,481, and Perry Terrace $4,762, from Uvalde Asphalt Paving Co., 1 Bway., New York City, Lott Ave. $8,964; from B. Turecamo Contg. Co., 8706 16th Ave., Avenue T $21,572, and 82nd St., $4,595. Noted Mar. 3.

N. Y., Bronxville—Westchester Co. Park Comn., 72 Pondfield Rd., Mar. 4, grading and paving 2,750 ft. driveway through Tibbetts Brook Park from Midland Ave. to point 600 ft. east of railroad, from Standard Bitulithic Co., 50 Church St., New York City, $40,473. Noted Mar. 3.

N. Y., Highland — F. S. Greene, supt. Pub. Wks., Albany, Mar. 9, concrete paving 1.03 mi. West Approach Highway, Mid-Hudson Bridge, Ulster Co., Contr. 6, from D. Schoentag, Inc., Saugerties, $223,660. Engrs. est. $334,104. Noted Feb. 17.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Mar. 9, sheet asphalt on concrete paving 58th St., from Sicilian Asphalt Paving Co., 41 Park Row, $18,463; granite block repaving Avenue B, etc. from Regan Towers Co., 124 West 121st St., $44,994; and granite block paving Allen St., from W. J. Fitzgerald, Grand Central Terminal $184,035. Noted Mar. 3.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete paving Harrison Ave., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $24,138; and sewer in Kissam Ave., from J. Johnson Sons, 445 Bway., West New Brighton, $4,254. Noted Mar. 3.

New Jersey—State Hy. Comn., Trenton, double line rein.-con. paving 46,608 sq.yd. Route 16, Sect. 9 from Woods Tavern to Harlingen, Somerset Co., from C. Sebolt, 16 Richmond St., New Brunswick, $230,372. Noted Feb. 17.

New Jersey—State Hy. Comn., Trenton, grading and concrete paving 56,000 sq.yd. Oak Rd. from Vineland to Malaga,

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Streets and Roads (Continued)

Gloucester and Cumberland Counties, from E. H. Ellis, 510 Wilson Bldg., Camden, $203,238. Noted Mar. 3.

N. J., Keyport—Bd. Freeholders, Monmouth Co., Freehold concrete paving 2.59 mi. Keyport-Keansburg Rd., from Liddle & Pfeiffer, 220 Smith St., Perth Amboy, $140,540. Noted Mar. 3.

Contracts Awarded

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to Rago Bros., Union Bldg., bituminous concrete paving First North St. $31,269, Third North St. $42,175, Malcolm St. $7,092, Leon St. $17,185, Elm St. $17,779, Grumbach Ave. $17,964, and Howard St., $9,648; to G. B. Dickinson, Union Bldg., Comstock St. $73,570, South Carbon St. $15,324, Isabella St. $12,463, and Wolf St. $12,178. Grand total $256,647. Noted Feb. 17.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to T. V. Monaghan, Water and Clarkson Sts., grading Aldine, St. Vincent and Summerdale Sts. 11,482; Atlantic, Belgrade and Venango Sts. $2,204, and 65th Ave. 847, to Wilson-Martin, Inc., 1501 North 2nd St., Allen and Webb Sts. $619, to J. Ciccone, 5732 Westminster St., B and 4th Sts. $5,821, and Robinson St. $903, to Municipal Constr. Co., Washington Sq. Bldg., improving Argyle, Benner, Colgate, Devereaux and Lawndale (county) Rds. $19,598; to McCarrick Bros., 3240 Fox St., grading Battersby, Englewood, Friendship, Hawthorne, Princeton, Rowland, St. Vincent, and Wellington Sts., $27,562, to C. H. Dading, 1418 Walnut St., Cherokee St. $9,300, and Cherokee St. between Carpenter and Sedgwick Sts. $4,559, to Gudknecht & Cullison, Torresdale and Robbins Aves., Front St. $1,970, to R. B. Wenner, 2810 West Gordon St., Gibson, Grovers, Harley, 64th and 65th Sts. $17,279; to Morrissey Bros., 4336 North Marshall St., Kemble, and Ogontz Sts. $8,445; to E. Garlick, Sr., 2948 East Venango St., Ontario St. $2,246; to S. C. Ratzell, Limekiln Pike and Haines St., Sprague St. $863, 66th and 67th Aves., 3rd and 4th Sts. $8,872; to B. Foster Co., Inc., 20th and Venango Sts., improving Bartram, Botanic and Laycock (country) Rds. $12,249, Dicks, 79th and 80th Rds. $30,171, Harley and 79th Rds. $30,177, to F. A. Carruso & Son, 804 South 12th St., Bingham, Lawndale, Palmetto and Ryers Rds. $10,153; to Union Paving Co., 123 South 21st St., Emerson, Fuller, Ripley and Loretta Rds. $16,544, Fanshawe, Kerper, and Unruh Rds. $16,494, Gilham, Levick, Montour, Newtown, Palmetto, and Passmore Rds. $17,026; to C. G. Centrone, Bailey Bldg., curbing and footway work (property owners to pay), 3rd Highway Dist. $9,537, and to L. Bakser, 1518 North 8th St., 5th and 7th Highway Dists. $16,845; to J. B. McHugh, Jr., 892 North Markoe St., repairing bridges $3,355; and to Phila. Stack & Tank Wks., Inc., 50 North 23rd St., sheet steel piling for Swanson Street Sluice, $2,978. Grand total $288,180.

Pa., Pittsburgh—Grading, curbing and paving, etc., Mt. Washington Roadway, to Booth-Flinn, Ltd., Forbes St. Engrs. est. $25,000.

Md., Baltimore—Bd. Awards, sheet asphalt paving 10,250 sq.yd. streets listed in Contr. 383, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks, $46,999; and concrete paving 8,130 sq.yd. streets listed in Contr. 384, to Arundel Contg. Co., Knickerbocker Bldg., $21,765.

La., Bastrop — Grading, curbing and rein.-con. paving 2.5 mi. East Madison, East and West Cypress, and Center Sts., etc., to Thibdeaux & Harrison, 1420 Main St., Baton Rouge, approximately $150,000.

O., Cincinnati—Director Pub. Serv., grading, sidewalks and concrete paving 8,000 sq.yd. Chandler St., to Holmes Constr. Co., Central Parkway and Ann St., $39,880, engrs. est. $46,175; also 7,000 sq.yd. Lockland Ave., to Cino Constr. Co., 2nd Natl. Bank, $64,788, engrs. est. $71,293. Noted Feb. 17 and Mar. 10.

O., Cincinnati — Comrs. Hamilton Co., curbing, walks and concrete paving 4,600 sq.yd. approaches to viaduct over Penn. R.R. tracks, on I. C. H. 8, to Foley Constr. Co., 3209 Boudinot Ave., $49,205, engrs. est. $81,505; also curbing, grading and concrete repaving 22,000 sq.yd. Van Zandt Rd., to E. Hine & Son., Harrison, $84,371, engrs. est. $91,266. Noted Feb. 17.

O., Cleveland—Bd. Comrs. Cuyahoga Co., grading and vitr. brick paving, etc., 40,000 sq.yd. Libby Rd. 3, to Cleveland Trinidad Paving Co., The Arcade, $180,909.

Ill., Chicago—Board Local Impvts., City Hall, removing present curbing, and curbing, guttering, 8 in. concrete paving, etc. portion West Lake St., to P. J. O'Brien, North Cicero Ave.; grading, preparing present macadam paving for foundation, also curbing, guttering and asphalt paving portion Lexington St., to Commonwealth Impvt. Co., 133 West Washington St.; grading, curbing, guttering, 6 in. concrete paving, etc. portions North Mobile, North Merrimac, North Melvina, North Moody, Wabansia and Bloomingdale Aves., to Home Paving Co., 130 North Wells St.

Wisconsin — State Hy. Comn., H. J. Kueling, state highway engr., Lancaster, grading, concrete paving, etc., 1.42 mi. S. P. 9184, Grant Co., to G. Fitton & Sons, Madison, $33,952; improving 2.74 mi. S. P. 9233, to Stevenson Bros., St. Paul, Minn. $18,621, 1.8 mi. Boscobel-Fennimore Rd., Grant Co., and Boscobel-Westport Rd., Crawford Co., also 1.98 mi. Five Points-Beetown and Lancaster-Bloomington Rds., Grant Co., to H. Turner, Wauzeka, $7,137 and $12,934 respectively; crushed rock surfacing, etc., 2,300 cu.yd. North Andover-Hackett Rd., to E. J. Smith, Blue Mounds, $5,292, 8,300 cu.yd. Montford-Muscoda and Muscoda-Highland Rds., also 5,300 cu.yd. Potosi-Cassville Rd., to O. Felger, Cuba City, $18,094 and $11,130 respectively; 11.19 mi. S. P. 923, to G. Needham, Fennimore, $19,836, 3,620 cu.yd. C. T. H. Y, to J. R. Okey, Cassville, $7,747, and 4,000 cu.yd. Patch Grove-Bridgeport Rd., to Dempsey Bros., Fennimore, $8,000; grading, etc., 7 mi. S. P. 9196, to P. W. Ryan & Son, Janesville, $24,023; and constructing concrete and steel bridge on S. P. 9196, Grant Co., to W. E. Gifford, Washington Bldg., Madison, $11,251. Grand total $178,017. Noted Feb. 17.

Ia., Iowa City—Johnson Co., to Dewess & Whitney, Springville, improving County Projects 1 and 3, 10,723 cu.yd. crushed stone 1 mi. haul at $2.75 per cu.yd., 4,105 cu.yd. 1 mi. haul $2.50, 34,027 units ½ mi. haul $0.07, and 1,000 cu.yd. stripping quarry $0.75.

Ark., Little Rock—For 6 in. rein.-con. paving, etc., 5,100 sq.yd. Pine St., Paving Dist. 459, to M. D. L. Cook, Home Insurance Building, $18,017. Engrs. est. $24,426. Noted Feb. 10.

Tex., Lubbock—Lubbock Co., grading, bridging, etc. 14,468 mi. Highway 53, 26 ft., to W. T. Hudman, Lubbock, $23,992. Engrs. est. $30,000. Noted Feb. 3.

Oklahoma—State Hy. Dept., Oklahoma City, **(F.A.P. means Federal Aid Project, S.A.P. State Aid Project and e.e. engineers estimate)**, grading, etc. 6.5 mi. S.A.P. 339-A, Alfalfa Co., to Albert Pike Constr. Co., Enid, $21,351 e.e. $25,000; 13.83 mi. F.A.P. 223-A, B, C and D, Grant Co., to B. J. & L. Paving Co., Enid, $41,454 e.e. $50,000; 5.21 mi. F.A.P. 229-A and B, Pawnee Co., to Altman-Rodgers, McAlester, $18,569 e.e. $25,000; 17.13 mi. F.A.P. 187-D, E, F and G, Stephens Co., to J. E. Smith & Sons, Noble, $82,235 e.e. $95,000; 13.24 mi. F.A.P. 189-A, B, C and D, Logan Co., and 15.15 mi. F.A.P. 199-G and H, Layne Co., to Blackburn Constr. Co., Healdton, $63,396 and $116,987 respectively, e.e. $75,000 and $120,000 respectively, all above roads 30 ft. Grand total $343,992. Noted Jan. 6.

Okla., Blackwell — Brick paving, etc. 14,200 sq.yd. Paving Dist. 38, to O. T. Tyler Constr. Co., Blackwell, $37,109. Noted Feb. 3.

Okla., Newkirk—Kay Co., rein.-con. paving 106,116 sq.yd. Blackwell-Kildare Highway, Project 1-A and B, to Stanton & Wallace, Leavenworth, $231,333. Noted Feb. 3.

Colorado—State Hy. Dept., Denver, grading and bridging 0.625 mi. Federal Aid Project 275-C, Constr. Div. 2, El Paso Co., to W. A. Colt & Son, Las Animas, $34,966; sand surfacing 5.313 mi. Federal Aid Project 134-A, Div. 2, Kit Carson Co., to F. Kantz, 800 Water St., Denver, $15,266; graveling 3.013 mi. Federal Aid Project 254-D, Grand Co., to Hinman Bros., 3358 Race St., Denver, $37,124. Grand total $87,356. Noted Feb. 17.

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Buildings—Commercial

Proposed Work

Vt., Windsor — MASONIC — Vermont Lodge 18, C. Tuxbury, chn., having preliminary plans prepared by Wells & Hudson, Hanover, N. H., altering and constructing 1 and 2 story and basement, brick and stone addition, plain foundation. $150,000.

Mass., Arlington — APARTMENT — Thorner Constr. Co., Kendall Sq. Bldg., Cambridge, having plans prepared by N. R. Willard, 402 Massachusetts Ave., 4 story and basement, brick and stone, plain foundation, 289 Bway. $200,000.

Mass., Cambridge (Boston P. O.) — APARTMENT—Allen & Shapiro, 27 School St., Boston, had plans prepared by S. E. Moffie, 51 Cornhill, Boston, 4 story and basement, 100 x 130 ft., brick and stone, plain foundation, Cambridge St., here. $350,000.

Mass., Cambridge (Boston P. O.) — APARTMENT — Rosen & Levine, 333 Washington St., Boston, had plans prepared by S. E. Moffie, 51 Cornhill, Boston, 3 story and basement, 140 x 190 ft., brick and stone, plain foundation, Alton Pl. $200,000.

Mass., Cambridge (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Dorchester (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Malden (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Quincy (br. Boston) — APARTMENT HOTEL, STORE and THEATRE — V. Kaufman, 18 Tremont St., Boston, plans brick hotel, store and theatre. $2,000,000. Engineer and architect not selected.

Conn., Waterbury — THEATRE — Poli's Theatre & Rialto Theatre, J. Moriarity, 127 Main St., having plans prepared by E. C. Horn & Sons, 1476 Bway, New York City, remodeling 2 brick and steel theatres into one, East Main St. $700,000.

N. Y., Brooklyn—THEATRE—Famous Players-Lasky Corp., 485 5th Ave., New York City, having plans prepared by Rapp & Rapp, 190 North State St., Chicago, Ill. brick, steel and stone, 4,000 seating capacity, East 22nd St., Duryea Pl., Flatbush and Tilden Aves., here. $1,500,000. Noted Mar. 4.

N. Y., Buffalo—OFFICE—State Building Comn., Albany appropriated $700,000, obtaining site and constructing state office building, here. Noted Feb. 11.

N. Y., New York—APARTMENT—Client Constr. Co., c/o G. F. Pelham, archt., 570 7th Ave., having plans prepared 30 story brick, steel and stone, plain foundation, Madison Ave. and 89th St. $2,500,000.

N. Y., New York—BANK and OFFICE—Klein & Jackson, 501 5th Ave., having plans prepared by W. L. Rouse, 512 5th Ave., 22 story, brick, steel and stone, plain foundation, Madison Ave. and 69th St. $4,000,000.

N. Y., New York—LOFT—Three Hundred Twenty West 27th St., Corp., c/o H. I. Oser, 1440 Bway., having plans prepared brick, steel and stone, plain foundation, 320 West 27th St. $400,000.

N. Y., New York—OFFICE—Five Hundred Eighty-Four Fifth Avenue Corp., c/o Warren & Wetmore, archts., 16 East 47th St., having plans prepared 31 story, brick, steel and stone, plain foundation, 5th Ave. and 47th St. $2,000,000.

N. J., Asbury Park — Y. M. C. A., 347 Madison Ave., New York City, having plans prepared by L. E. Smith, 247 Park Ave., New York City, 4 story, brick, steel and stone, plain foundation, here. $350,000.

N. J., Jersey City—BANK and OFFICE—Labor Natl. Bank, 2895 Hudson Blvd., having plans prepared by J. T. Rowland, 100 Sip Ave., 15 story, brick, steel and stone, plain foundation, Journal Sq. and Enos Pl. $1,000,000.

N. J., Morristown — APARTMENT — A. Yenkelowitz, c/o R. Bottelli, archt., 207 Market St., Newark, having plans prepared and soon takes bids 5 story, 126 x 255 ft., brick, plain foundation, South St. $200,000.

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Plainfield—Y. M. H. A., 433 West Front St., H. Rothberg, chn., plans community building, here. $150,000. Engineer and architect not selected.

Pa., Butler—OFFICE—Phillips Gas & Oil Co., having plans prepared by Janssen & Cocken, Century Bldg., Pittsburgh, 3 story and basement, 75 x 100 ft., limestone and steel, Main and North Sts. $150,000.

Pa., Chester—OFFICE, STORE and APARTMENT—F. C. Watson, archt., Wallingford preparing plans 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, Edgemont St., here. $200,000. Owner's name withheld.

Pa., Oil City—THEATRE—Manhiem & Borland having plans prepared by H. Kremer, 267 Cambria St., Buffalo, N. Y., 1 story and basement, 80 x 190 ft., brick and tile theatre, here. $150,000.

Pa., Phila.—ARCADE—L. B. Rothchild, archt., 215 South Broad St., soon lets contract 2 story, 46 x 230 ft., rein.-con., brick and steel, plain foundation, 1309-11 Walnut and 1306-08 Sansom Sts., for One Thousand Three Hundred and Nine to Eleven Walnut Street Investment & Holding Co., c/o S. W. Sargent, 1600 Walnut St.

Pa., Phila. — BANK, STORE and APARTMENT—J. T. Brugger, archt., Pub. Ledger Bldg., soon lets contract 2 story and basement, 34 x 120 ft., rein.-con., brick and steel, plain foundation, Barnes and Ox-

Buildings Commercial (Continued)

ford Sts., for Oak Lane Trust Co., Broad and York Sts.

Pa., Phila. — GARAGE — I. Sley, c/o Racquet Garage, 1602 Chancellor St., having plans prepared by L. B. Rothschild, 215 South Broad St., 8 story and basement, 60 x 80 ft., rein.-con. and brick, plain foundation, here. $190,000.

Pa., Phila.—HOTEL and GARAGE—One Thousand Seven Hundred and Nine Locust St. Corp., c/o W. J. Taube, 19th and Chestnut Sts., having plans prepared 25 story and basement, 60 x 100 ft. hotel, and 60 x 75 ft. garage, both rein.-con., brick and steel, plain foundations, 1709-15 Locust St. $3,000,000. F. E. Hahn, 629 Chestnut St., archt.

Del., Wilmington—ARMORY—State Secretary Armory Comn., takes bids about Apr. 22, constructing 2 story and basement, brick, steel and rein.-con., duPont-Scott St. $200,000. Edward Canby May, duPont Bldg., archt.

La., New Orleans—HOTEL—B. G. Carbajal, Inc., Hibernia Bldg., having plans prepared by E. Weil, Whitney Bldg., 15 story hotel, Canal and South Franklin Sts. $1,000,000. R. L. Cherry, Wm. Penn Hotel, Houston, Tex., lessee.

La., Pineville—HOSPITAL and ADMINISTRATION—Central Louisiana Hospital, J. N. Thomas, supt., soon lets contract 2 story and basement, 34 x 191 ft., and 2 story, 46 x 126 ft., rein.-con., brick and stone hospital and administration building. $170,000. H. J. Duncan, C. E. Barron & E. L. Ball, Alexandria, archts. Noted Oct. 28.

Ind., Gary—CITY HALL—City, W. J. Fulton, mgr., takes bids after Apr. 1, rein.-con. and brick city hall. $500,000. P. H. Maher, 157 East Erie St., Chicago, Ill., archt. Noted Feb. 24.

Mich., Detroit — RESTAURANT and STORE—Owner, c/o S. E. Remey, archt., 1140 Griswold St., had plans prepared 2 story and basement, rein.-con., brick and steel, plain foundation. $175,000.

Steam heating, boilers, flooring, roofing and elevator.

Ill., Belleville—JAIL and HOSPITAL—St. Clair Co., c/o County Bd. Supervs., plans election in June, $300,000 bonds, jail and additions to court house and hospital, all rein.-con., brick and stone.

Ill., Chicago—APARTMENT—Six Thousand, Seven Hundred Crandon Avenue Building Corp., c/o Quinn & Christensen, archts., 360 North Michigan Ave., having sketches made 13 story, 60 x 125 ft., rein.-con. and brick, 67th St. and Crandon Ave. $900,000.

Ill., Chicago—APARTMENT—Syndicate, c/o C. Weinfeld, 232 South Clark St., having plans prepared by McNally & Quinn, 8 South La Salle St., 20 story and basement, 170 x 185 ft., rein.-con. and brick, Melrose Ave. and Sheridan Rd. $2,000,000.

Ill., Chicago—APARTMENT HOTEL—E. J. Meles, archt., 105 North Monroe St., prepared plans and soon takes bids 13 story and basement, 80 x 150 ft., T shaped, rein.-con., brick and stone, 1117-1123 North Dearborn St., for B. E. Cohen, 139 North Clark St. $2,000,000.

Ill., Chicago—APARTMENT HOTEL—S. Olson, 721 Belmont Ave., and A. H. Loeffler, 2738 Pine Grove Ave., had plans prepared by Thielbar & Fugard, 219 East Superior St. and takes bids about Mar. 17, 14 story and basement, 75 x 120 ft., rein.-con., brick and stone, 2734-38 Pine Grove Ave. $1,200,000.

Ill., Chicago — CLUB — Chicago Club, Michigan Ave. and Van Buren St., having plans prepared by Granger & Bollenbacher, 332 South La Salle St., 8 story and basement club, Michigan Ave. and Van Buren St. $1,000,000.

Ill., Chicago—HOSPITAL—B. E. Cohen, 139 North Clark St., having sketches made by E. J. Meles, 105 West Monroe St., 4 story, 153 room rein.-con. and brick, 758-64 West Jackson Blvd. $350,000.

Ill., Chicago—HOSPITAL—A. S. Alschuler, archt., 28 East Jackson Blvd., soon lets contract 10 story and basement, 40 x 80 ft., rein.-con., brick and terra cotta, wood pile foundation, Franklin and Washington Sts., for Chicago Eye, Ear, Nose & Throat Hospital, 235 West Washington St. $700,000. Noted Feb. 24.

Ill., Chicago—WAREHOUSE—Marshall Field & Co., Washington and State Sts., having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., rein.-con. and steel warehouse on 425 x 650 ft. site, Wells, Kinzie and Orleans Sts. $10,000,000-$15,000,000.

Ill., Decatur — TEMPLE — Holabird & Roche, archts., 104 South Michigan Ave., Chicago, take bids about Apr. 1, 2 story and basement, brick and Bedford stone, plain foundation, between William and North Sts., west of Church St. here, for Decatur Masonic Temple Assn. $550,000. Noted Feb. 4, 1926.

Ill., Kewanee—THEATRE—Great States Theatres, Inc., 162 North State St., Chicago, having plans prepared by E. G. Wolff, Wrigley Bldg., Chicago, 2 story and basement, 128 x 150 ft., rein.-con., brick and terra cotta, plain foundation, 3rd and Main Sts., here. $250,000. Engineer not selected.

Wis., Chippewa Falls—HOSPITAL—St. Josephs Hospital having plans prepared by Fieller & Sehober, 225 North Adams St., Green Bay, 4 story, rein.-con., brick and steel addition, plain foundation. $150,000.

Minn., Minneapolis — CLUB — Womens Club of Minneapolis, J. W. Phillips, chn. building com., c/o Leamington Hotel, soon takes new bids 4 story and basement, rein.-con., brick and stone, Oak Grove and 15th Sts. $250,000. Former bids rejected. Magney & Tulser, 126 9th St. S., archts. Noted Feb. 17.

Kan., Goodland—COURT HOUSE—Sherman Co., c/o C. W. Jupe, clk., will not construct court house. $200,000. Project postponed indefinitely. E. Williamson & Co., 312 Central Bank Bldg., Topeka, archts. Noted Jan. 27.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Mo., St. Louis—CLUB HOUSE—St. Louis Metropolitan Club, c/o E. D. Nims, chn. building com., 11th and Pine Sts., soon takes bids 5 story and basement, 112 x 155 ft., rein.-con., brick and stone, incl. swimming pool, gymnasium, tennis courts, etc., Kingshighway and Maryland Ave. $1,500,000. Mauran, Russell & Crowell, Chemical Bldg., archts. Noted Jan. 6.

Ark., Texarkana—CITY HALL, JAIL, FIRE STATION and AUDITORIUM—City voted $150,000 bonds, new city hall, jail, fire station and auditorium. Noted Feb. 3.

Tex., El Paso—THEATRE—Dent Theatres, Inc., 2009½ Jackson St., Dallas, purchased site and plans probably 8 story fireproof theatre. $1,000,000. Engineer and architect selected soon.

Tex., San Antonio—HOSPITAL—Sisters of Charity of Incarnate Word, c/o Santa Rosa Hospital, take bids in April, 5 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, West Houston and Santa Rosa Sts. $300,000. A. B. and R. M. Ayres, 626 Bedell Bldg., archts.

Tex., San Antonio—WAREHOUSE—Merchants Transfer Co., c/o F. Cannaday, Main Ave., plans large dry and cold storage type warehouse, Dolorosa Ave. $2,000,000.

Okla., Tulsa — OFFICE — McBirney Investment Co., c/ E. W. Siffle, archt., 407 Natl. Bank Bldg., soon takes bids 10 story and basement, 50 x 140 ft., rein.-con., brick and terra cotta, 3rd and Main Sts. $450,000. H. Von Unwerth, 705 Finance Bldg., Kansas City, Mo., engr. Noted Dec. 30.

Wash., Seattle—APARTMENT—E. W. Morrison, archt., Lloyd Bldg., takes bids about Apr. 1, 12 story and basement, 120 x 160 ft., rein.-con., brick and terra cotta, apartment, incl. 2 story, concrete, 60 car garage, Boren Ave. and University St., for Sovereign Investment Co., Seattle. $800,000.

Wash., Seattle—AUDITORIUM, etc.—Voted $900,000 bonds, constructing and furnishing civic auditorium, arena, recreation field, 7,500 seating capacity. Noted Jan. 27.

Calif., Redondo Beach—RESORT—Redondo Land & Impvt. Co., T. R. Gardiner, pres., New Orpheum Bldg., Los Angeles, plans improving resort buildings, here. To exceed $1,000,000.

Calif., San Francisco — POLICE STATION and COURT—City and San Francisco Co. plan election $150,000 or more bonds, branch police station and criminal court building, Civic Center Area. J. Reid, Jr., city archt.

Que., Montreal — OFFICE — Railway Exch. Co., c/o W. F. Empey Co., 232 St. James St., soon takes bids 11 story, 95 x 170 ft., rein.-con., Craig St. $750,000. Engineer and architects names withheld.

Bids Desired

N. H., Concord—HOSPITAL—Mar. 29 (extended date), by J. D. Leland & Co., archts., Statler Bldg., Boston, Mass., 1, 2 and 3 story and basement, brick and stone addition, incl. nurses home, power house and connecting passageways, plain foundation, for Margaret Pillsbury General Hospital. $150,000. Noted Mar. 3.

Mass., Athol — BANK — Athol Savings Bank, L. B. Fay, 384 Main St., taking bids 2 story and basement, rein.-con., brick and steel, Main St. $150,000. J. W. Beal Sons Co., 185 Devonshire St., Boston, archts. Noted Feb. 17.

Mass., Boston — APARTMENT — W. I. Schell, 73 Tremont St., taking bids 5 story and basement, brick and stone, plain foundation, 401 Beacon St. To exceed $150,000. S. S. Eisenberg, 46 Cornhill, Boston, archts. Noted Mar. 10.

Mass., Boston—STORE and OFFICE—Doll & Richards, 71 Newbury St., taking bids altering and constructing 4 story and basement, brick and limestone addition, plain foundation, 138 Newbury St. $150,000. W. T. Aldrich, 30 Newbury St., archt.

Mass., Medford (br. Boston) — STORE and APARTMENT — See "Contracts Awarded."

Mass., Medford (br. Boston)—THEATRE—Silverman & Kramer, 192 Merrimack St., Haverhill, taking bids 1 story and basement, brick and steel, plain foundation, High St., West Medford Sq., here. $150,000. E. H. McEwan, 72 Woodstock St., Wollaston, archt. Noted Mar. 10.

Mass., Norwood—TOWN HALL and MEMORIAL—Town, c/o W. G. Upham, archt., Bigelow Blk., taking bids on revised plans 2 story and basement, brick and stone, plain foundation, West, Matahan and Market Sts. $225,000. Noted Dec. 23.

Mass., Quincy (Ind. br. Boston)—MASONIC—See "Contracts Awarded."

Conn., Waterbury—OFFICE—Mar. 22, by Bristol Co., Platts Mills, 3 story, brick, steel and rein.-con. office building. $160,000. F. A. Webster, 51 West Main St., archt.

Mass., Worcester — APARTMENT — See "Contracts Awarded."

Pa., Phila.—APARTMENT—Mar. 18, by S. Masif, 3725 Old York Rd., 4 story and basement, 35 x 40 ft., and 31 x 121 ft., brick and steel, plain foundation, 15th and Jefferson Sts. $150,000. J. Margolis, Fuller Bldg., archt.

Pa., Phila. — APARTMENT — See "Contracts Awarded."

Pa., Phila.—OFFICE—Mar. 21, by J. T. Windrim, archt., Commonwealth Bldg., 2 story, 56 x 56 ft., and 34 x 137 ft., rein.-con., brick and steel top addition, Chelton and Germantown Aves., for Bell Telephone Co. of America, 17th St. and Parkway.

Md., Baltimore—APARTMENT—Mar. 24, by E. H. C. Browne, archt., 516 North Charles St., 3 story and basement, irregular shaped, brick and steel, plain foundation, Park Heights and Clark Lane, for J. Mizen, 4013 Park Heights Ave. $450,000.

Miss., Jackson—HOSPITAL—Mar. 28, by State Hospital Removal Impvt. & Land Sale Comn., 1 story dining hall, also hospital, receiving building, 4 cottages and officials building, all foregoing 2 story, rein.-con., brick, marble and terrazzo, on State Prison Farm, here. N. W. Overstreet, Mississippi Fire Bldg., archt. Noted Mar. 10.

Tenn., Nashville—HOTEL—Mar. 24, by Prichett-Thomas Co., Stahlman Bldg., 12 story and basement, 200 room, concrete, brick and stone, 7th and Commerce Sts. $700,000. Barr & Holman, Stahlman Bldg., archts. Noted Jan. 27.

Mich., Ann Arbor—THEATRE, STORE and OFFICE—M. H. Finkel, archt., 1333 Book Bldg., taking bids and open same about Mar. 30, 3 story and basement, 2,500 seating capacity, rein.-con. and brick, plain foundation, East Liberty St. $200,000. Owner's name withheld.

Ill., Chicago—APARTMENT—Leichenko & Esser, archts., 38 South Dearborn St., taking bids 4 story and basement, 141 x 152 ft., rein.-con., brick and stone, 5426-38 Ridgewood Court and 5427-39 Kenwood Ave., for Ridgewood Court Building Corp., c/o architects. $650,000.

Ill., Chicago—APARTMENT HOTEL—Quinn & Christensen, archts., 360 North Michigan Ave., taking bids 9 story and basement, 76 x 150 ft., rein.-con., brick and terra cotta, Everett Ave. near 56th St., for Saranac Building Corp., c/o architects. $750,000.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Calif., Los Angeles—JUVENILE HOME—Mar. 28, by Supervs. Los Angeles Co., part 1 and 2 story, 215 x 240 ft., rein.-con., Mission Rd. and Henry St. Noted Jan. 6.

Calif., San Francisco—APARTMENT—J. L. Stewart, archt., Claus Spreckels Bldg., taking bids 3 story and basement, timber and stucco, Seacliff Park, for Seacliff Hotel Co., c/o architect. $225,000. Noted Feb. 24.

Contracts Awarded

Me., Saco—THEATRE and STORE—Mutual Fire Insurance Co., 1 and 2 story and basement, 100 x 110 ft., brick, steel, plain foundation, Thornton Ave. and Main St., to G. A. Scammon, 15 Lincoln St. Archts. est. to exceed $150,000. Noted Feb. 24.

N. H., Exeter—COURT HOUSE—Comrs. Rockingham Co., G. A. Carlisle, chn., altering and constructing 2 story and basement,

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Buildings—Commercial (Continued)

brick and limestone addition, plain foundation, to I. Brown, Northampton, Mass. Archts. est. $150,000. Former contract rescinded. Noted Mar. 3.

Vt., Brattleboro—HOSPITAL—Brattleboro Retreat for Insane, H. G. Ripley, doctor, 2 and 3 story and basement, brick addition, plain foundation, 75 Linden St., to G. H. Reed, Montague City, Mass. Archts. est. $150,000. Noted Nov. 18.

Mass., Boston—COMMERCIAL—Federal Development Co., 30 Federal St., 4 story and basement, brick, steel and stone, plain foundation, 24-26 Dock Sq., to E. H. Porter Co., 15 Willis St., Peabody. Archts. est. $165,000. Noted Feb. 3.

Mass., Cambridge (Boston P. O.) — APARTMENT—M. Berger, 1429 Cambridge St., will build 3 story and basement, irregular shaped, brick and stone, plain foundation, 65 Martin St. $150,000. Work will be done by separate contracts. M. Waters, 288 Blue Hill Ave., Roxbury, archt.

Mass., Danvers — HOSPITAL — Town, Hospital Com., altering and constructing 3 story and basement, brick and stone addition to Hunt Memorial Hospital, to W. A. Berry, 6 School St. Archts. est. $150,000. Noted Mar. 3.

Mass., Dorchester (Boston P. O.) — APARTMENT—L. Labovitz, 43 Tremont St., Boston, will build 3 story and basement, brick and stone, plain foundation, Wales St. $150,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts.

Mass., Fall River—STORE and APARTMENT—A. Lee, 336 2nd St., 4 story, and basement, brick and stone, Rodman and 2nd Sts., to J. Crowe, 486 2nd St. Archts. est. $160,000.

Mass., Holyoke — APARTMENT — Traquair & Epstein, 4 story and basement, 50 x 110 ft., brick and stone, plain foundation, 280-284 Oak St., to W. K. Traquair, Mt. Tom. Archts. est. $150,000.

Mass., Malden (br. Boston)—APARTMENT—T. J. and A. E. Griffin, c/o C. F. Springall, archt., 84 Sprague St., will build 4 story and basement, brick, plain foundation, Salem and Mt. Vernon Sts. $150,000. Work will be done by separate contracts. Noted Feb. 10.

Mass., Medford (br. Boston)—STORE and APARTMENT—B. Garfinkle, 519 Main St., will build 3 story and basement, brick and stone, plain foundation, Main and Bow Sts. $150,000. Work will be done by separate contracts. A. Carey, 84 South Border St., archt.

Mass., Quincy (Ind. br. Boston) — MASONIC — Atlantic Masonic Building Assn., R. A. Dennison, pres., Old Colony St., will alter and construct brick and stone additions, East Squantum and Hunt Sts. $150,000 or more. Work will be done by separate contracts. Private plans. Noted Mar. 3.

Mass., Worcester — APARTMENT — Dworman Building Co., 16 Norwich St., will build 3 story and basement, brick and stone, plain foundation, Ethan Allen St. $150,000. Work will be done by separate contracts. E. C. Storr, 16 Norwich St., archt.

R. I., Providence — BANK — Providence Institution for Savings, 86 South Main St., 1 story and basement, rein.-con., brick and steel, Olneyville Sq., to Rowley Constr. Co., 260 Central Ave., Pawtucket. Archts. est. $150,000. Noted Feb. 24.

R. I., Providence — THEATRE and STORE — A. C. Emery, 36 Exchange St., 2 story and basement, 100 x 155 ft., brick, steel and stone, plain foundation, Hope and 4th Sts., to Rowley Constr. Co., 260 Central Ave., Pawtucket. Archts. est. to exceed $150,000. Noted Feb. 10.

R. I., West Warwick—TEMPLE—Pawtucket Valley Masonic Assn., 1 story and basement, Main Rd., to O. and S. Lavine, Arctic. Archts. est. to exceed $150,000.

Conn., Bridgeport—HOSPITAL—Bridgeport Hospital, Englewood, Div., W. H. Hersey, doctor, 2 story and basement, brick and steel nurses home and hospital addition, Jewett Ave., to W. R. Muirhead & Son, 541 Maple St., $71,104. Noted Feb. 3.

N. Y., New York — THEATRE — A. L. Pincus, 565 5th Ave., brick, steel and stone, plain foundation, 244 West 52nd St., to O'Day Constr. Co., 1639 Bway. Archts. est. $300,000.

N. J., Hoboken—FERRY HOUSE and GARAGE—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Ferry St., general contract, 158 x 192 ft. ferry house, and 55 x 85 ft. garage, both 1 story, steel, concrete pile foundation, foot 14th St., to Limouze Bros., Inc., 118 8th St., West New York. Archts. est. $220,000.

N. J., Newark—APARTMENT—Criterion Constr. Co., 128 Market St., will build 5 story, brick, steel and stone, plain foundation, Washington St. Work will be done by separate contracts. $250,000.

Pa., Phila.—APARTMENT—N. Litman, 45th and Pine Sts., will build 4 story and basement, 95 x 108 ft., brick and steel, plain foundation, 46th and Chestnut Sts. $250,000. Work will be done by separate contracts. Private plans.

Pa., Phila. — BANK — Davis, Dunlap & Barney, archts., 1805 Walnut St., 1 story and basement, 60 x 66 x 80 x 146 ft., rein.-con., brick, steel and stone, plain foundation, 1608-14 East Torresdale Ave., to R. E. Lamb Co., 841 North 19th St., for Fairhill Trust Co., 5th and Allegheny Sts. Archts. est. $150,000. Noted Mar. 3.

Pa., Phila.—BANK, STORE and APARTMENT—J. T. Bruggar, archt., Pub. Ledger Bldg., 2 story and basement, 24 x 230 ft., rein.-con., brick and steel, plain foundation, 22nd and Venango Sts., to Paul Brosz, 2511 West Huntingdon St., for Broad St. Natl. Bank Co., Broad and Diamond Sts. Noted Feb. 10.

Pa., Phila.—BANK and OFFICE—Whitshire Realty Co., c/o I. Mirkel & Co., Widener Bldg., 22 story and 2 basements, 60 x 117 ft., rein.-con., brick and steel, plain foundation, 15th and Walnut Sts., to Thompson Starrett Co., Packard Bldg. Archts. est. $1,750,000. Noted Jan. 13.

Pa., Phila.—WAREHOUSE and SERVICE—P. S. Tyre, archt., 114 South 15th St., 4 story and basement, 100 x 170 ft., rein.-con. and brick, plain foundation, 23rd and Wood Sts., to Wark Co., 1600 Walnut St., for J. G. Greenberg, Morris Bldg. $300,000. Firestone Tire Co., 2401 Chestnut St., lessee. Noted Mar. 3.

Pa., Pottstown — MASONIC HOME — Stichter Lodge, Masonic Temple Assn., 3 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, to J. H. Keiser, Pottstown.

Pa., Upper Darby (mail Phila.) — APARTMENT, etc. — Owner, c/o H. B. Weldon, archt., 1817 Callowhill St., Phila., 6 story and basement, 300 x 417 ft., rein.-con., brick and steel, incl. swimming pool, 350 car garage and service station, plain foundation, Garrett Rd. and Lansdowne St., to Smith-Hardican Co., 1809 Callowhill St., Phila. Archts. est. $2,500,000.

O., Uhrichsville—HOTEL—Uhrichsville Hotel Co., A. Robinson, pres.-genl. mgr., 5 story and basement hotel, to E. T. Jacobs, Coshocton, $200,000. Noted Feb. 3.

Ind., Ft. Wayne—THEATRE and HOTEL—C. Neiser, Harrison and Jefferson Sts., general contract 8 story and basement, 150 x 180 ft., rein.-con., brick and steel theatre and hotel, to M. Irmscher & Son, 1st Natl. Bank Bldg. Archts. est. $1,300,000. W. E. Quimby, 37 West Vanderbilt St., Chicago, Ill., lessee.

Ill., Chicago — APARTMENT — Geneva Terrace Building Corp., 20 West Jackson Blvd., masonry and carpentry contract 3 story, 95 x 281 ft., brick, 2337-45 Geneva Terrace, to G .A. Gungall, 6417 South Park Ave. Archts. est. $385,000.

Ill., Chicago — APARTMENT — H. K. Holsman, archt., 307 North Michigan Ave., masonry, concrete and carpentry contract 8 story and basement, 50 x 150 ft., rein.-con. and brick, 5617 Dorchester Ave., to Adams Constr. Co., 217 Clarkson Court, for Syndicate, c/o architect. Archts. est. $350,000. Noted Feb. 10.

Ill., Chicago—OFFICE, STORE, APARTMENT and GARAGE—Seventy-Fifth & Exchange Building Corp., 2157 East 75th St., general contract 1 and 2 story, 210 x 213 ft., 7501-19 Exchange Ave., to Holton-Seelye & Co., 140 South Dearborn St. Archts. est. $325,000.

Mo., St. Louis — APARTMENT — A. M. Cornwell, c/o F. J. Cornwell Real Estate Co., 111 North 7th St., will build 7 story and basement, 38 x 175 ft., rein.-con., brick and terra cotta, plain foundation, Lindell Blvd. and Sarah St. $300,000. Work will be done by separate contracts.

Mo., St. Louis — APARTMENT — West End Realty & Constr. Co., 3416 North Union Blvd., will build (9 unit) 2 story and basement, 34 x 52 ft., brick and concrete, Mardel Ave. $150,000. Work will be done by separate contracts, all awarded.

Colo., Denver—EXCHANGE—Mountain State Telephone & Telegraph Co., Telephone Bldg., general contract 15 story, 125 x 200 ft., rein.-con. and steel, 14th and Curtis Sts., to C. E. Walker Constr. Co., Central Savings Bank Bldg. $2,500,000 cost plus percentage basis.

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Buildings—Industrial

Proposed Work

N. J., Jersey City—PLANT—Yale Electric Corp., 60 Tillary St., Brooklyn, N. Y., plans manufacturing plant, Mill Rd., Cornelesen Ave., Academy and Wayne Sts., here. $1,000,000. Engineer and architect not selected.

N. J., Trenton—PLANT—Golding Sons Co., Peace St., having plans prepared by W. E. Dyer Co., Land Title Bldg., Phila., Pa., two 60 x 120 ft. units, concrete and steel plant. $250,000.

N. J., Trenton—SUB-STATIONS—Pub. Serv. Electric & Gas Co., Water St., Trenton, improving North Warren St. generating station, and Liberty St. sub-station. $250,000. Engineer not selected.

Pa., Indiana—TEXTILE FACTORY—Indiana Textile Mills, Inc., having plans prepared 1 story, 95 x 115 ft., brick and steel, Oakland Ave. $40,000. Private plans.

Pa., Phila.—MANUFACTURING—A. W. Barnes, archt., Perry Bldg., soon lets contract 5 story, 20 x 99 ft., rein.-con. brick and steel addition, plain foundation, 1523 Race St., for J. J. Griffin, Inc., 1513 Race St.

Pa., Roxborough (sta. Phila.)—MILL—W. Spink, Flat Rock Rd., plans 3 story and basement, 30 x 75 ft. and 33 x 108 ft., rein.-con. and brick carbonizer plant, plain foundation. Private plans.

Ala., Birmingham—PLANT—R. Hoe & Co., Inc., 504 Grand St., New York City, do not plan brick, steel and rein.-con. plant for manufacturing printing machinery and saws, plain foundation, here. $1,000,000. This corrects report in Mar. 10 issue.

Mich., Detroit—STOVE PLANT and OFFICE—Peninsular Stove Co., Fort St. and Trumbull Ave., having plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, rein.-con., brick and steel factory, and 2 story, brick and steel office, both plain foundation, Burt Rd. $1,000,000. Noted Nov. 11.

Mo., Kansas City—MANUFACTURING—Cowden Mfg. Co., 412 West 8th St., having plans prepared 6 story and basement, 50 x 121 ft., rein.-con. and brick addition. $125,000. Private plans. Automatic fire sprinkler system, and additional equipment.

Mo., Kansas City — PLANT — H. W. Johns-Mansville Co., Madison Ave. and 41st St., New York City, N. Y., plans rein.-con., brick and steel plant, plain foundation, here. $350,000. Private plans.

Tex., Corpus Christi—COTTON COMPRESS—Aransas Compress Co., c/o J. K. Cain, pres., soon lets general contract 260 x 1,165 ft. cotton compress 300,000 sq.ft. floor space, incl. 2 high density compresses, storage capacity 30,000-40,000 bales. $300,000. R. J. Cummins, Bankers Mortgage Bldg., Houston, engr. Noted Dec. 16.

Tex., Estelline—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, plans large power plant, and rein.-con. dam, 1,500 ft. wide, 175 ft. high, here. $1,000,000. Private plans.

Okla., Fairfax — HYDRO-ELECTRIC PLANT — State Drainage Bd., Capitol Bldg., Oklahoma City, D. E. Johnson, member, having preliminary surveys made new 30,000 hp. hydro-electric plant on Arkansas River, near here. $3,000,000. T. C. Hughes, 205 Cole Bldg., Tulsa, engr. This corrects report in Feb. 10 issue.

Calif., Pasadena—BAKERY—Continental Bakeries Corp., having plans prepared by J. and D. B. Parkinson, 420 Title Insurance Bldg., 1 and part 2 story, 180 x 180 ft., brick bakery. $150,000.

Calif., San Francisco—POWER PLANT—City and San Francisco Co. plan election $800,000-$1,000,000 bonds, "stepdown" power plant in connection with Hetch Hetchy project.

Bids Desired

N. H., Concord—POWER HOUSE—See "Buildings—Commercial."

Mass., Boston—REPAIR SHOP, SERVICE GARAGE and STORE—See "Contracts Awarded."

Mass., Concord Junction — MANUFACTURING — See "Contracts Awarded."

Mass., Lynn—FORGE SHOP—See "Contracts Awarded."

Ind., Bloomington — FACTORY and STORAGE—H. & P. Electric Co. taking bids 2 story, 51 x 105 ft., brick and steel factory and storage building. $42,000. Larkin Eng. Co., Granite Bldg., St. Louis, Mo., archts. Noted Oct. 28.

Ind., Bloomington—REPAIR SHOP and GARAGE—L. Lewis, 317 North College St., taking bids 2 story, brick and steel repair shops and garage. $40,000. Private plans.

Ind., Evansville—MACHINE SHOP and GARAGE—W. C. Sanderson, 110 Water St., taking bids brick, steel and stone machine shop and garage. $44,000. Private plans. Reo-Tri-State Co., Evansville, lessee.

Ind., Hammond—FACTORY—Anderson-Nail Co. taking bids brick and steel fac-

Buildings—Industrial (Continued)

tory. $45,000. J. J. Marley, 5 LaSalle St., Chicago, Ill., archt.

Ind., Michigan City—MACHINE SHOP and GARAGE—Roper Motor Co., taking bids 1 story, 83 x 120 ft., brick machine shop and garage. $40,000. K. Newhouse, 4623 Drexel Blvd., Chicago, Ill., archt.

Wis., Madison—SERVICE STATION and SHOP—See "Contracts Awarded."

Wis., Stoughton — PLANT — See "Contracts Awarded."

Kan., Augusta—FACTORY and WAREHOUSE—See "Contracts Awarded."

Tex., Texarkana — ICE and COLD STORAGE PLANT — See "Contracts Awarded."

Okla., Ponca City—POWER PLANT—Mar. 31 by City Clerk, 3 story and basement, 84 x 120 ft., rein.-con. and brick power plant. $75,000. Burns & McDonell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 24.

Contracts Awarded

Mass., Boston—REPAIR SHOP, SERVICE GARAGE and STORE—H. E. Cline, 43 Tremont St., will build 1 story, 150 x 250 ft., brick and steel, plain foundation, 613-627 Columbia Rd. $75,000. Work will be done by separate contracts. Private plans.

Mass., Cambridge (Boston P. O.) — GARAGE and REPAIR SHOP — Ward Baking Co., 140 Albany St., 1 story, 110 x 150 ft., rein.-con., to Equity Constr. Co., 25 West 43rd St., New York City.

Mass., Cambridge (Boston P. O.) — FACTORY — Kendall Industrial Building Trust, Kendall Sq., 6 story, 250,000 sq.ft. floor space, rein.-con., plain foundation, Commercial Ave., to S. C. Sperry Co., 507 Kendall Sq. Bldg. Archts. est. $3,000,000.

Mass., Concord Junction — MANUFACTURING—Atlantic Cement Products Corp., R. G. Eggleston, pres., will build 1 story, rein.-con., plain foundation, Conant St. $40,000. Work will be done by separate contracts. Private plans.

Mass., Lynn — FORGE SHOP — General Electric Co., A. E. Trundinger, in charge, 920 Western Ave., will build 1 story, brick and steel addition, concrete foundation. Work will be done by separate contracts. Private plans.

N. Y., Beacon—POWER PLANT—Commissioner Mental Hygiene, Albany, general contract central power plant at Matteawan State Hospital, here, to A. E. Stephens Co., 145 State St., Springfield, Mass., $220,330. Noted Feb. 17.

N. Y., Potsdam — HYDRO-ELECTRIC PLANT—St. Lawrence Valley Power Corp., Potsdam (subsidiary Aluminum Co. of America, Pittsburgh, Pa.), hydro-electric plant, 900 ft. Ambursen rein.-con. dam, 50 ft. high, power house, etc., in St. Regis River, near here, to Ambursen Constr. Co., Grand Central Terminal, New York City.

Pa., Elkins Park—GARAGE and SERVICE—L. L. Miller, Real Estate Trust Bldg., Phila., 1 story and basement, 160 x 247 ft., rein.-con., brick and steel, plain foundation, here, to DePaul Bros., 1262 East Washington Lane, Phila.

Pa., Phila.—FREIGHT SHED—W. H. Cookman, archt., Broad St. Sta., superstructure Building A, 1 story, 110 x 400 ft., Building B, 1 story, 110 x 600 ft., 2 story, 110 x 200 ft., and five 5 x 200 ft. platforms and shelters, Oregon and Delaware Aves., to Sinclair & Griggs, Medical Arts Bldg., for Pennsylvania R.R. Co., Broad St. Sta. Archts. est. $500,000. Noted Feb. 17.

Pa., Phila. — FACTORY — Steel-Heddle Co., N and Allegheny Sts., 5 story and basement, 96 x 100 ft., rein.-con. and brick, plain foundation, here, to W. Steele & Son, 15th and Cherry Sts.

Pa., Upper Darby (mail Phila.)—SERVICE STATION—See "Buildings—Commercial."

La., Baton Rouge—ICE PLANT—Louisiana Ice & Utilities Co., Simmesport, 1 story, 47 x 88 ft., rein.-con., brick and terra cotta, to A. C. Stewart, 810 East Boulevard St., Archts. est. $85,000.

O., Toledo — POWER PLANT — Toledo Furnace Co., Frant St., three 2,000 hp. and two 1,500 hp. boilers added to power plant, etc., to Dwight P. Robinson & Co., Inc., 125 East 46th St., New York City. Archts. est. $1,000,000.

O. Youngstown—FREIGHT TERMINAL—Erie R.R., R. E. Falconer, ch. engr., 50 Church St., New York City, 5 story and basement, 90 x 422 ft., brick and rein.-con., to C. Shutrump & Sons Co., 107 West Hylda St., approximately $500,000. This corrects report in Mar. 3 issue.

Ind., Terra Haute—PLANT—Wadley Co., 615 South 6th St., general contract 3 story, 90 x 91 ft., brick and steel plant, to Roehm Bros., 30 North 5th St. Archts. est. $100,000. Noted Feb. 10.

Ill., East Peoria (br. Peoria)—WASHING MACHINE FACTORY—Haag Bros., West Washington St., 1 story, 150 x 160 ft., brick addition, plain foundation, 319 West Washington St., to F. Harbers & Sons, 1007 Central Natl. Bank Bldg., Peoria, $100,000.

Ill., Kewanee — FLANGE SHOP — Kewanee Boiler Co., 1 story, 80 x 200 ft., rein.-con. flange shop, to Worden & Allen Co., 208 South La Salle St., Chicago. Archts. est. $75,000.

Wis., Stoughton—PLANT—City, c/o E. Norman, clk., will build 1 story, rein.-con., brick and steel plant, by day labor. $40,000. Powers Eng. Co., 621 Metropolitan Life Bldg., Minneapolis, Minn., engrs. Noted Dec. 2.

Minn., Minneapolis — BAKERY — Regan Brothers Co., J. F. Regan, treas., 5th St. and 7th Ave. N., general contract 3 story and basement, rein.-con. and brick addition, to Stahr-Burgum Co., 401 Metropolitan Bank Bldg., approximately $150,000. Noted Feb. 3.

Minn., Thief River Falls — POWER PLANT—City, rebuilding electric power plant, incl. power house, 2 modern waterwheels, complete equipment to double capacity of 350 hp. and retaining walls, etc., to McKenzie-Hague Co., Corn Exch. Bldg., Minneapolis, $46,975. Noted Feb. 17.

Kan., Augusta—FACTORY and WAREHOUSE—Spencer Trailer Co., c/o F. G. Spencer, will build 1 story, 60 x 300 ft., and 60 x 100 ft., brick and concrete factory and warehouse, by day labor. Archts. est. $150,000.

Tex., Orange — CANNING PLANT — W. H. Stark & associates, 1 story, 100 x 200 ft., rein.-con., and brick, to T. A. Howell, Orange. Archts. est. $100,000, incl. machinery. Noted Mar. 3.

Tex., Texarkana — ICE and COLD STORAGE PLANT—Southern Ice & Utilities Co. will build 100 ton daily capacity ice and cold storage plant, rein.-con., brick and steel, by day labor. $300,000 incl. machinery. Private plans.

Tex., Wichita Falls—BAKERY—Nafzinger Bakery Co., c/o W. L. Mulligan, genl. mgr., brick, steel and rein.-con., Smarsh and Magnolia Sts., to R. H. Brown, 406 Perkins Snider Bldg., $125,000.

Calif., Tipton—CREAMERY—Alfred Ice Cream Co., 817 East 18th St., Los Angeles, 1 story, 60 x 210 ft., brick and concrete, to Shorb & Neads, Fresno, $44,800.

Que., Montreal — LIGHT PLANT — S. Horwitz, 282 St. Catherine St. W., 11 story, 100 x 118 ft., rein.-con. and stone, Peel St., to Quimlan, Robertson Ltd., 702 Sherbrooke St. W. Archts. est. $350,000.

Ont., Oshawa — MOTOR FACTORY — General Motors Co. 1 and 2 story 600 ft. long, rein.-con., brick and steel, plain foundation, Division St., to W. H. Yates Constr. Co., Hamilton, Archts. est. $300,000.

Buildings — Educational Religious

Proposed Work

N. H., Laconia — LIBRARY — State of New Hampshire, W. A. Stone, purch. agt., Concord, plans altering and constructing addition, Park and North Sts. $150,000. Engineer and architect not selected.

Mass., Burlington Avenue (sta. Boston) — HIGH SCHOOL — Town, E. Vining, supt. schools, plans 2 story and basement, brick and stone high school. $150,000. Engineer and architect not selected.

Mass., Easthampton — RECREATION — Williston Academy, A. V. Galbraith, headmaster, having preliminary plans prepared by J. H. MacNaughton, 177 State St., Boston, recreation building, incl. swimming pool, social hall and quarters for school paper plant. $200,000.

Mass., Milford—HIGH SCHOOL—Town, J. C. Lynch, chn. having sketches made by R. A. Cook, 57 Prospect St., brick and steel high school, School and Spruce Sts. $350,000. Noted Feb. 3.

Mass., Needham (Ind. br. Boston)—HIGH SCHOOL—Town, G. H. Campbell, supt., Schools, Chapel St., plans Junior High School, 2 story and basement. $150,000 or more. Engineer and architect not selected.

Mass., New Bedford—CHUECH—North Baptist Society, 76 County St., having sketches made by F. T. Hammond, Clifford Bldg., altering and constructing 2 story and basement, brick, addition, plain foundation. $150,000.

Mass., New Bedford — CHURCH — First Baptist Church, William St., takes bids about Mar. 21, 2 story and basement, brick and stone, William St. Brown & Poole, Chapman Bldg., archts. G. E. Merrill, 23 East 26th St., New York City, associated archt. Noted Dec. 2.

Mass., Roxbury (Boston P. O.) — SCHOOL — City, Schoolhouse Dept., Boston, having plans prepared by C. R. Greco, 11 Beacon St., Boston, 2 story and basement, brick and limestone, Kearsage Ave., here. $400,000.

Mass., Waltham (Ind. br. Boston) HIGH SCHOOL—City, W. H. Slayton, supt. schools, 45 Caughley St., plans high school. To exceed $150,000. Engineer and architect not selected.

Mass., Williamstown—FRATERNITY—Phi Gamma Delta takes bids about Apr. 1, fraternity house. $200,000. A. Bussell., 374 Madison Ave., New York City, archt. Noted Sept. 30.

N. Y., Brooklyn—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn Technical High School, brick, steel and stone, plain foundation, DeKalb Ave., South Elliott and Ft. Greene Pls., here. $1,500,000.

N. Y., East Aurora — SCHOOL — Bd. Educ. plans school. $155,000. Engineer and architect not selected.

N. Y., New York—NURSES SCHOOL—Lincoln Hospital and Home, Convent Ave. and 141st St., soon takes bids, brick, steel and stone, plain foundation, Convent Ave. and 141st St. $750,000. Pleasant Pennington, 250 Park Ave., archt.

N. J., West Orange — SCHOOL — Bd. Educ. paving plans prepared by Guilbert & Betelle, Chamber of Commerce Bldg., Newark, brick, steel and stone, plain foundation, here. $200,000.

Pa., Phila.—HIGH SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., having plans prepared by I. T. Catharine, 19th and Chestnut Sts., Senior High School, rein.-con. and brick, plain foundation, Dicks Ave. and Island Rd.

Pa., Phila. — SCHOOL — St. Ambrose Roman Catholic Church, J. A. Hughes, pastor, Roosevelt Blvd. and Boudinet St., plans 3 story and basement, 61 x 142 ft., rein.-con., brick and steel, plain foundation, here. G. I. Lovatt, 223 South Sydenham St., archt.

Pa., Lewistown — SUNDAY SCHOOL and PARISH HOUSE—St. Johns Lutheran Church, c/o C. R. Simon, pastor, having plans prepared by Ritcher & Eiler, Reading, 2 story and basement, 90 x 110 ft., rein.-con., brick and steel church and Sunday school. $150,000.

Fla., Jacksonville — CHURCH — Church Good Shepherd (Episcopal) having preliminary plans prepared by M. C. Greeley, 111 West Adams St., 2 story, 75 x 100 ft., rein.-con., Stockton St. $200,000.

Ala., Birmingham—SCHOOLS—Election Apr. 12, $3,500,000 bonds, purchasing sites, and constructing additions to various schools,

Miss., Natchez—HIGH SCHOOL—Bd. Educ., c/o Superintendent, having plans prepared by P. J. Krouse, M. & W. Bldg., Meridian, and soon takes bids 2 story, 186 x 200 ft., brick and concrete high school. $200,000. Noted Jan. 27.

La., Lake Charles — CHURCH — Broad Street Methodist Congregation, T. H. Watkins, chn., having preliminary plans prepared by R. S. McCook, Frank Bldg., rein.-con., brick and stone, Broad St. $150,000.

O., Cleveland Heights (Warrensville P. O.)—SCHOOLS—Bd. of Educ., of Cleveland Heights, W. G. Nesbit, dir., 1781 Lee Rd., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 2 schools, 2 story and basement, brick, steel and concrete additions, to Taylor and Fairfax Schools. $200,000.

O., Garfield Heights (br. Cleveland) — SCHOOL and CHURCH—Church of the Little Flower, R. P. Gibbons, pastor, 10708 McCrackers Blvd., Cleveland, having plans prepared by W. Koehl, 1720 Euclid Ave., Cleveland, 1 and 2 story, brick and stone, Granger Rd. and Penfield Ave. $200,000. Noted Feb. 24.

O., Portsmouth — CHURCH — Trinity Methodist Episcopal Church Congregation, G. W. Vandernort, chm. building comn., having plans prepared by DeVoss & Donaldson, archts., for brick and stone church. $175,000.

Ind., Delphi—SCHOOL—School Comrs., C. C. McFarland, pres., had plans prepared

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Buildings—Educational, Religious (Cont.)

by O. P. Gordon, Thayer Bldg., Greenfield, and soon takes bids rein.-con. brick and steel school. $150,000. Noted Dec. 16.

Ind., Indianapolis — COLLEGE — Butler University, Fairview Park, having plans prepared by R. F. Daggett, Continental Bank Bldg., and soon takes bids superstructure Arthur Jordan Memorial Hall, 3 story and basement, 190 x 500 ft., rein.-con., brick and steel. $1,100,000. Former contract rescinded. Noted Oct. 21.

Ind., Valparaiso—SCHOOL—Bd. Educ. having preliminary plans prepared by Hamilton-Fellows & Wilkinson, 814 Tower Court, Chicago, Ill., rein.-con., brick and steel school, incl. auditorium and gymnasium. $160,000.

Mich., Hazel Park (Royal Oak P. O.)—SCHOOL—Bd. Educ. having plans prepared by Burrowes & Eurich, 415 Brainard St., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Mich., Orion—SCHOOL—Dist. 3, Fractional, having plans prepared by Verner, Wilhelm & Molby, 824 Book Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $170,000.

Ill., Decatur — CHURCH and PARISH HOUSE — St. Pauls Lutheran Church having plans prepared by Brooks, Bramhall & Dague, Natl. Bank Bldg., 2 story and basement, 50 x 180 ft., stone, plain foundation, Wood and Edwards Sts. $150,000.

Wis., Neenah — HIGH SCHOOL — Bd. Educ., 561 East Wisconsin St., and J. D. Chubb, archt., 109 North Dearborn St., Chicago, Ill., take bids about Apr. 1, 2 story and basement, 150 x 200 ft., rein.-con., brick and stone, Elm St. $400,000.

Wis., Sturgeon Bay — SCHOOL — Bd. Educ., City Clerk, City Hall, plans 3 story, rein.-con., brick and steel unit for East Side High School, here. Engineer and architect not selected.

Minn., Mankato — SCHOOL — Election Mar. 26, $400,000 bonds, constructing 2 schools, for Bd. Educ. Noted Dec. 30.

Minn., St. Peter—DORMITORY—Gustavus Adolphus College, c/o O. J. Johnson, pres., having plans prepared by Magney, Tulser, 126 South 9th St., Minneapolis, 3 story and basement, 45 x 175 ft., rein.-con., brick, and kasota stone dormitory. $150,000.

Kan., Chanute — HIGH SCHOOL and SHOP—Bd. Educ. soon takes bids 2 story, 100 x 144 ft., rein.-con., brick and stone school addition and shop building, $198,000. T. W. Williamson & Co., 312 Central Bank Bldg., Topeka, archts. Noted Feb. 3.

Kan., Dodge City—SCHOOLS—Election in spring $250,000 bonds, 16 room grade school and 1st unit of Senior High School, both rein.-con., brick and stone.

Kan., Hutchinson—HIGH SCHOOL—Bd. Educ., J. E. Geyer, clk., having preliminary plans prepared by W. E. Hulse & Co., Stamey Hotel Bldg., 2 story, 15 class rooms, auditorium and gymnasium, rein.-con. and brick addition. $175,000.

Mo., Kansas City—ART MUSEUM—Atkins Museum of Fine Arts, c/o A. W. Childs and H. V. Jones, trustees, 715 Continental Bldg., having preliminary plans prepared by Wight & Wight, 1st Natl. Bank Bldg., art museum. $600,000.

Mo., Kansas City—SCHOOLS—Election in June $5,000,000 bonds, constructing school buildings for Bd. Educ., J. Jackson, secy., 9th and Locust Sts.

Ark., Ft. Smith—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared 3 story, rein.-con., brick and stone Senior High School. $350,000.

Tex., Amarillo—CHURCH and SUNDAY SCHOOL—First Baptist Congregation, c/o T. W. Cottan, chn. building com., takes bids probably in Spring, 1 story and basement, 82 x 121 ft., Church and 76 x 110 ft. Sunday School, concrete brick and stone. $300,000. G. A. Carlander, Amarillo, archt. Ferrand & Fitch, 6188 Delmar Blvd., St. Louis, Mo., associated archts. Noted Feb. 17.

Tex., Dallas — CHURCH — Episcopal Church of Incarnation, C. S. Snowden, pastor, 2133 North Harwood St., had plans prepared by Land & Winchell, 300 Amer. Exch. Bank Bldg., brick, stone, and rein.-con., McKinney and Canal Sts. $300,000.

Okla., Tulsa—SCHOOL—Bd. Educ., W. B. Weston, secy., having preliminary plans prepared by L. Shumway, New Alexander Bldg., Vocational School, 2 story and basement, 80 x 140 ft., brick and stone, plain foundation, South Quamah, Owmen Park Addition. $150,000. Noted Jan. 6.

Wash., Seattle — SCHOOLS — Voted $2,400,000 bonds, purchasing 15 school sites; completing Grover Cleveland High School;

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constructing intermediate and 2 elementary schools, also additions to Roosevelt and Queen Anne High Schools, for Bd. Educ., R. Jones, secy. Noted Jan. 20.

California — COLLEGE — Trustees San Bernardino Valley Junior College, San Bernardino, takes bids after Mar. 21, 65 x 270 ft. classroom building, and 63 x 207 ft. science building, both 2 story, rein.-con., between Colton and San Bernardino. $350,000. Noted Oct. 28 under "San Bernardino."

Calif., Berkeley—SCHOOLS—City plans election $1,000,000 bonds, new schools and additions.

Calif., Calexico — HIGH SCHOOL — Calexico High School Dist. plans fireproof high school. To exceed $150,000. R. Swearington, Anderson Bldg., archt.

Calif., Los Angeles—HIGH SCHOOL—School Dist. rejected bids Geo. Washington High School, rein.-con. and brick. Noted Mar. 10.

Calif., San Pedro—AUDITORIUM—Bd. Educ. having preliminary plans prepared by A. S. Nibecker, 3 story, 200 x 271 ft., rein.-con. auditorium and shop, 1501 Cabrillo Ave. $350,000.

Calif., Vacaville — HIGH SCHOOL — Vacaville High School Dist. having preliminary plans prepared by Coffman, Sahlberg & Stafford, Mitau Bldg., Sacramento, fireproof high school. $150,000.

Calif., Wilmington—CHURCH—Roman Catholic Archbishop, Los Angeles, had plans prepared by Newton & Murray, San Fernando Bldg., Los Angeles, rein.-con., Neptune St. $150,000 or more.

Bids Desired

Me., South Portland—SCHOOL—City, G. H. Minot, mayor, City Hall, taking bids 2 story and basement, brick and stone, plain foundation, Pine and Mussey Sts. $150,000. J. A. and J. H. Stevens, Chapman Bldg., Portland, archts. Noted Jan. 20.

N. H., Hanover — FRATERNITY — Chi Phi Fraternity taking bids 2 story and basement, rein.-con. and brick, plain foundation. $150,000. Noted Dec. 2.

Mass., Lowell — CHURCH — St. Jeane D'Arc Church, A LaMothe, pastor, 135 4th St., taking bids 2 story and basement, 115 x 180 ft., brick and stone, plain foundation, Pawtucketville Sect. To exceed $150,000.

R. I., East Greenwich—SCHOOL—Town, J. D. Miner, chn. bd. taking bids 2 story and basement, 16 room, brick and steel, 1st Ave. $250,000. W. Walker & Sons, 49 Weybosset St., Providence, archts. Noted Sept. 30.

Pa., Tyrone — CHURCH — Mar. 22, by First Methodist Church, c/o J. W. Hedding, 1½ and 2 story and basement, 80 x 100 ft., stone and steel, plain foundation, Logan Ave. G. E. Savage, Witherspoon Bldg., archt. Noted July 1.

Fla., Live Oak—SCHOOL—Mar. 28, by Suwanee Co. Bd. Pub. Instruction, new school. Lockwood, Poundstone & Billie, 112 Cass Ave., Tampa, archts.

O., Athens—AUDITORIUM—Apr. 2, by Bd. Trustees, 50 ft. high and basement, 107 x 145 ft., brick, steel and stone, on Ohio University campus. $250,000. Howell & Thomas & H. B. Briggs, Ohio-Hartman Bldg., Columbus, archts. Noted Oct. 21.

O., Bedford—CHURCH—Mar. 18, by H. W. Maurer, archt., 5716 Euclid Ave., Cleveland, 1 and 2 story, 75 x 101 ft., brick, steel and stone, for Centenary Methodist Episcopal Church, H. W. Flickinger, pastor, 739 Bway. $150,000.

O., Cleveland—SCHOOL—Apr. 4, by Bd. Educ., F. G. Hogen, dir., East 6th St. and Rockwell Ave., 3 story and basement, 160 x 292 ft., brick, steel and concrete, East 131st St. $800,000. G. M. Hopkinson, Auditorium Garage Bldg., archt. Noted Feb. 3.

O., Midvale (br. New Philadelphia)—SCHOOL—Mar. 22, by Bd. Educ. Ohio City Liberty School Dist., A. E. Dull, clk., 2 story and basement, 67 x 69 x 70 x 190 ft., brick, steel and concrete high and grade school. $200,000. T. D. McLaughlin and Associates, Lima, archt.

Ill., La Grange—SCHOOL—Mar. 30, by Childs & Smith, archts., 720 North Michigan Ave., Congress Park School, 2 story and basement, 80 x 119 ft., rein.-con. and brick, Raymond and Shields Aves., for Bd. Educ. $190,000.

Wis., Green Bay—HIGH SCHOOL—Mar. 30, by Bd. Educ., I. H. McIntire, supt., Senior High School, rein.-con. and steel, plain foundation, Shawano Ave. $200,000. C. C. Reynolds, 722 Commercial St., Manitowoc, archt. Noted Sept. 2.

Minn., Minneapolis—FIELD HOUSE and GYMNASIUM — Mar. 24, by Comrs. Administration & Finance, Capitol, St. Paul, rein.-con. and brick field house and gymnasium, approximately 300 ft. long, at State University, here. $500,000. C. H. Johnston, 360 Roberts St., archt. Noted May 20, 1926.

Wash., Longview—HIGH SCHOOL—Mar. 29, by Bd. Educ., 2 story and part basement, 212 x 215 ft., rein.-con., brick and stone high school. W. B. Ittner, 311 Locust St., St. Louis, Mo., archt.

Calif., Palo Alto—SCHOOL—Mar. 29, by Trustees Palo Alto Union High School Dist., frame and stucco high school additions. $150,000. B. M. Clark, 310 University Ave., archt. Noted Dec. 2.

Calif., San Pedro—HIGH SCHOOL—Bd. Educ. taking bids Dana Jr. High School, 3 story, rein.-con. and hollow tile, for Los Angeles School Dist. $250,000 or more. A. S. Nibecker, Washington Bldg., Los Angeles, archt. Noted Mar. 10.

Contracts Awarded

N. H., Farmington — HIGH SCHOOL — Town, F. W. Browne, chn. com., 2 story and basement, brick and stone addition, to H. Knox, Church St. Archts. est. $150,000. Noted Feb. 3.

Mass., Chicopee Falls — SCHOOL — St. George's Parish, 2 story and basement, 80 x 125 ft., brick and stone, plain foundation, Maple St., to La France Constr. Co., 292 Maple St. Archts. est. $150,000. Noted Feb. 24.

N. Y., Albany—CHURCH—St. James Church, 1 story and basement, brick, stone and granite, plain foundation, to J. J. Finn & Son, 9 Cuyler Ave. Archts. est. to exceed $150,000. Noted Feb. 24.

N. J., Jersey City — RECTORY — Our Lady of Victory Roman Catholic Church, T. F. O'Donnell, pastor, 2201 Hudson Blvd., 2 story, 33 x 64 ft. steel, plain foundation, 2217 Hudson Blvd., to J. Mitchell, 40 Journal Sq. Archts. est. $150,000.

Pa., Norristown—HIGH SCHOOL—Bd. Educ., H. Kranz, secy., general contract Junior High School, 3 story and basement, 149 x 272 ft., rein.-con. and brick, plain foundation, Roberts and Pine Sts., to P. H. Kelly, 1713 Sansom St., $385,773; heating and ventilating, to Crossman & Quillman, Norristown, $31,800. Noted Feb. 17.

Pa., Phila.—CHAPEL and SCHOOL—St. Martins of Tours Roman Catholic Church, J. P. McHugh, pastor, Sanger St. and Roosevelt Blvd., 3 story and basement, 94 x 140 ft., rein.-con., steel and stone chapel and school, to N. W. Bryson, 10 South 18th St. Noted Feb. 24.

Pa., Phila.—CHURCH—F. F. Durang, archt., 1220 Locust St., 1 story, balcony and basement, 65 x 82 ft., and 48 x 99 ft., rein.-con., steel and stone, plain foundation, Allegheny and 29th Sts., to F. V. Warren Co., 1913 Arch St., for Corpus Christi Roman Catholic Church, E. J. Kane, pastor, Allegheny and 29th Sts. Noted Feb. 3.

Pa., Phila. — COLLEGE and BOILER HOUSE—N. Hulm, archt., 1524 Chestnut St., 62 x 141 ft., 94 x 134 ft. and 62 x 141 ft. college buildings, each 3 story and basement, and 1 story, 40 x 61 ft. boiler house, both rein.-con., brick and steel, plain foundations, 43rd and Kingsessing Sts., to Wark Co., 1600 Walnut St., for Philadelphia College of Pharmacy & Science, 145 North 10th St. Noted Feb. 10.

Pa., Phila.—RECREATION CENTER—Stockhouse & Donohoe, archts., 266 South 15th St., 2 story and basement, 49 x 180 ft. recreation center, incl. 50 x 150 ft. swimming pool, etc., 4623 Lancaster Ave., to J. Kelly Constr. Co., Bulletin Bldg., for Shanahan Catholic Club, here. Noted Mar. 3.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, general contract 3 story and basement, 104 x 106 ft., rein.-con. and brick, plain foundation, 41st and Brown Sts., to McCloskey Co., 1620 Thompson St., $403,296; and heating, to J. Somer & Son, 2436 Brown St., $43,936. Noted Mar. 10.

Tenn., Nashville—FINE ARTS—George Peabody School for Teachers, Peabody Campus, general contract (except excavation), 3 story, brick and concrete, on campus, to Boone Contg. Co., Independent Life Bldg., $150,000. Noted Jan. 29, 1925.

O., Hudson—HIGH SCHOOL—B. S. Sanford, clk. Bd. Educ. Hudson Rural School Dist., 2 story and basement, 150 x 202 ft., brick, steel and concrete, to Laird Bros. Constr. Co., Ashtabula, $163,998. Noted Feb. 24.

Ind., Ft. Wayne—CHURCH and SUNDAY SCHOOL—First Christian Scientist Church general contract rein.-con. and brick, Fairfield and Pierce Aves., to Rump-Kintz Co., 210 Medical Bldg. Archts. est. $200,000. Noted June 10.

Mich., Birmingham—LIBRARY—Library Bd., 2 story and part basement, rein.-con., brick, steel and stone, plain foundation,

Buildings—Educational, Religious (Cont.)

Baldwin Ave., to N. A. Starr, Royal Oak (Ind br. Detroit). Archts. est. $175,000. Noted Jan. 27.

Ia., Ames — DORMITORY — Iowa State College, 2 story and basement, 40 x 144 ft., rein.-con., brick, steel and stone, plain foundation, to Tapager Constr. Co., Albert Lea, Minn., $116,767.

Minn., St. Paul—SCIENCE HALL—H. A. Sullwood, archt., 107 East 3rd St., general contract 4 story and basement, 62 x250 ft., rein.-con., brick and stone, to Butler Bros., 638 Hamm Bldg., for College of St. Catherine, Randolph and Cleveland Ave. Archts. total est. opproximately $250,000. Noted Oct. 7.

Okla., Ponca City—HIGH SCHOOL—Bd. Educ., 2 story and part basement, 138 x 170 ft., rein.-con., brick, stone and terra cotta, plain foundation, to G. M. Robertson, 812 First Natl. Bldg., Lincoln, Neb., $214,-512. Noted Feb. 10.

Calif., Los Angeles—CHURCH—Roman Catholic Archbishop of Los Angeles, constructing Church of Blessed Sacrament, rein.-con., Sunset Blvd., to J. V. McNeil Co., 5860 Avalen Blvd., approximately $500,000. Noted Nov. 25.

Federal Government Work

Proposed Work

D. C., Wash. — Laboratory Power — Bureau Standards, Dept. Commerce, receive architectural service until Mar. 15, in connection with design, preparation of drawings, etc., laboratory power building. $200,000.

Fla., Key West — Fill — Spec. 5312 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans marl fill for breakwater at Naval Operating Base (Submarine Base), here.

Mich., Muskegon—Breakwater, etc.—U. S. Engineer Office, Milwaukee, Wis., G. Van B. Wilkes, dist. engr., soon lets contract 1,512 ft. exterior breakwater, 3,240 ft. concrete caisson piles and stone shore connection, etc., here. Noted Feb. 18, 1926.

Colorado—Landing Fields—Dept. Commerce, Wash., D. C., plans three 50 acre emergency landing fields, one about 10 mi. south of Fountain, one north of Colorado Springs, and other about 3 mi. north of Castle Rock, incl. 50 ft. rein.-con. and steel beacon lights along Pueblo-Denver-Cheyenne air mail route, here.

Bids Desired

Mass., Boston — Bronze — Mar. 22, by Bureau Supplies & Accounts, Navy Dept., Wash., D. C., manganese bronze, bar copper, bar and plate steel, steel shapes, pig lead, aluminum ingots, cement gun, carbon brushes, heaters or thermo tanks for ventilating system, and ventilating sets, for Navy Yard, here.

Mass., Boston—Railroad—Spec. 5342—Mar. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., railroad track on Pier 4, Navy Yard, here.

Conn., Hartford—Dredging—Apr. 15, by U. S. Engineer Office, Providence, R. I., dredging in Connecticut River, below here; adv. E. N.-R. Mar. 17.

N. Y., Brooklyn — Remodeling — Spec. 5320—Mar. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rearranging partitions with changes in lighting and plumbing, etc., at Naval Hospital, here; adv. E. N.-R. Mar. 17.

Pa., Phila.—Heating Plant—Spec. 5330—Apr. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant at Marine Barracks, here.

N. C., Oteen—Refrigerating Equipment—Apr. 12, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., automatic refrigerating equipment at U. S. Veteran's Hospital 60, here.

Miss., Gulfport—Sand Fill—Mar. 29, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., sand fill at U. S. Veteran's Hospital 74, here. Noted Nov. 4.

La., New Orleans—Fence and Gates—Spec. 5335—Mar. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., fence and gates at U. S. Naval Station, here. Noted Mar. 10.

Ky., Louisville—Power House—Mar. 21, by U. S. Engineer Office, superstructures power houses at Dams 50, 52 and 53, Ohio River.

Ky., Shelbyville—Post Office—Apr. 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here; adv. E. N.-R. Mar. 17.

Ill., Maywood—Refrigerating Equipment—Apr. 12, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., automatic electric refrigerating equipment at U. S. Veteran's Hospital Edward Hines, Jr., here.

Wis., Milwaukee—Cement, etc.—Mar. 22, by U. S. Engineer Office, portland cement, sand and gravel, steel reinforcing bars, etc.

Wyo., Sheridan—Fire Alarm System—Mar. 22, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., fire alarm system for U. S. Veteran's Hospital 86, here.

Mo., St. Louis—Barges—Mar. 25, by U. S. Engineer Office, 428 Customhouse, 20 small steel barges; adv. E. N.-R. Mar. 17.

Calif., Livermore—Fence and Gates—Apr. 12, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., fence and gates at U. S. Veteran's Hospital 102, here.

Calif., San Diego — Marine Railway — Spec. 5336—Apr. 13, by Bureau Yards & Docks Navy, Dept., Wash., D. C., reconstructing marine railway at Naval Operating Base (Destroyer Base), here; adv. E. N.-R. Mar. 17.

Bids Received

Mass., Boston—Storehouse—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 3, storehouse at U. S. Quarantine Station, Gallops Island, here, from C. A. Zappe, Inc., 5 Lindale Ave., Dedham, $4,884. Noted Feb. 3.

Mass., Winchester—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, from J. P. Curley, 108 Dudley St., Boston, $71,111. Noted Feb. 17.

N. Y., New York — Lighting — Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 14, lighting changes in U. S. Post Office, here, from Simes Co., Inc., 22 West 15th St., $1,356. Noted Mar. 3.

Calif., Presidio (sta. San Francisco)—Generator — Constructing Quartermaster, Fort Mason, steam turbine generator and generator panel in Letterman General Hospital Power House, here, from Latourette-Fical Co., 2612 9th St., Oakland, $10,138. Noted Feb. 17.

Contracts Awarded

Mass., New Bedford—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C. altering U. S. Post Office, here, to Olson & Appleby, New Bedford, $3,705.

N. Y., Syracuse—Post Office and Court House—Treas. Dept. at office Supervising Archt., Wash., D. C., mechanical equipment for U. S. Post Office, here, to Standard Eng. Co., 2129 Eye St. N. W., Wash., D. C., $132,900. Noted Feb. 17.

Md., Annapolis—Disposal System—Spec. 5305—Bureau Yards & Docks, Navy Dept., Wash., D. C., sewage disposal system, at Naval Academy, here, to Virginia Eng. Co., Newport News, Va., $4,975 (120 days). Noted Mar. 3.

D. C., Wash.—Elevator Enclosure Doors—Spec. 5321—Bureau Yards & Docks, Navy Dept., elevator enclosures, to F. S. Gichner Iron Wks., 214 D St. N. W., $4,350 (90 days). Noted Mar. 3.

Mo., St. Louis—Towboat—U. S. Engineer Office, 428 Customhouse, 110 ft. diesel electric towboat, to Charles Ward Engine Wks., South Side, Charleston, W. Va., $126,800. Noted Feb. 10.

Mo., St. Louis—Pump—U. S. Engineer Office, 428 Custom House, 1 discharge dredge pump for 32 in. pipe line dredge, Fort Gage, to Hardie-Tynes Mfg. Co., 800 North 28th St., Birmingham, Ala., $13,631. Noted Mar. 3.

Idaho, Sandpoint — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office, here, to W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $73,300. Noted Mar. 3.

Calif., Mare Island — Elevator — Spec. 5289—Bureau Yards & Docks, Navy Dept., Wash., D. C., passenger elevator to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $22,560 (180 days). Noted Jan. 27.

Calif., San Diego — Piles and Borings — Spec. 5302—Bureau Yards & Docks, Navy Dept., Wash., D. C., piles and borings at Supply Depot, Naval Operating Base, here, to C. and F. W. Steffgen, San Diego, $7,719 (90 days).

Unclassified

Proposed Work

Hockey Rink — Hanover, N. H. — Dartmouth College, c/o J. F. Larson, archt., Hanover, having preliminary plans prepared hockey rink.

Swimming Pool—Easthampton, Mass.—See "Buildings, Educational, Religious."

Athletic Field—Newton (Ind. br. Boston), **Mass.**—City, E. O. Childs, mayor, plans athletic field, Walnut St. $50,000. Private plans.

Playground—Quincy (Ind. br. Boston), **Mass.**—City, Bd. Park Comrs., Y. Mattson, chn., plans playground near T. B. Pollard School. $25,000. Address City Engineer.

Boardwalk — Lavallette, N. J. — Mayor and Council making plans rebuilding boardwalk with railing along Ocean front. $65,000. R. W. Morris, Lavallette, engr. Noted June 24.

Arena—Phila., Pa.—Tex Rickard, c/o A. H. Greenfield, Bankers Trust Bldg., having plans prepared by T. Lamb, 644 8th St., 220 x 325 ft. arena, 18,000 seating capacity, central part city. $5,000,000.

National Guard Camp—Biloxi, Miss.—E. C. Lohr, U. S. Property & Disbursing Officer, Vicksburg, postponed taking bids until about Apr. 20, National Guard Camp, incl. 24 kitchens and mess halls, 4 combined baths and lavoratories, 1 officers kitchen

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Unclassified (Continued)

and mess, supply house, 3 combined officers shower and lavoratories, 200 pyramidal and 80 wall tent floors, warehouse, water supply, sanitary sewers, etc., here, for State Military Dept., State National Guard of Mississippi. C. T. Green, adj. genl. Noted Dec. 9. $94,892.

Terminals—Lake Charles, La.—Pure Oil Co. making plans deep water terminals on 35 acre site, along Calcasieu River, at Kaough Bluff. $250,000. Private plans.

Oil Land Development—Monroe, La.—Monroe Winnfield Oil & Gas Co., plans 2,200 acre oil land development. $100,000. Private plans.

Park Improvements—Alton Park, Tenn.—See "Streets and Roads."

Power Line — Kentucky — Mayesville & Flemingsburg Light & Power Co., Maysville, plans 9.5 mi. power line along right-of-way of State Project 20-L, Mason Co.

Stadium — Cleveland Heights (Warrensville P. O.), **O.**—City, H. H. Canfield, mgr., plans concrete stadium, 12,000 seating capacity, Superior and Taylor Rds. $50,000. C. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Lighting Standards and Electrical Wiring—Columbus, O.—B. F. Turner, supt. Municipal Light Plant, prepared plans approximately 8¼ mi. lighting standards and underground electrical wiring on Broad St. $150,000.

Swimming Pool—Lakewood (br. Cleveland) **O.** Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., having plans prepared M. F. Hasbrouch, archt. and engr., 299 Madison Ave., New York City, N. Y. 1 story, rein.-con., Bunts Rd. $100,000.

Car Barn and Garage—Detroit, Mich.—Dept. Street Railways, St. Jean and Shoemaker Ave., plans 1 story, rein.-con., brick and steel car barn and garage, plain foundation, Coolidge Ave. $280,000.

Park Development — Muskegon, Mich. — City plans developing McGraft Park, containing 80 acres, incl. sidewalks, paving, single arch bridge, playground equipment, shrubbery, planting trees, etc. $200,000. I. C. Root, Flint, engr.

Grain Elevator—Edinburg, Ill.—O. H. Rink & Schibe plan rebuilding 50,000 bu. capacity grain elevator, recently destroyed by fire. $35,000.

Green Houses—Pana, Ill.—Maton Bros. plans 15 green houses.

Grain Elevator—Topeka, Kan.—Moore Loury Flour Mills Co., Southwest Blvd. and state line, Kansas City, Mo., making plans 200,000 cu.bu. capacity, rein.-con. grain elevator, here. Private plans.

Air Plane Hangar—Kansas City, Mo.—Chamber of Commerce making plans rein.-con. and steel hangar complete, Richards Aviation Field; also gasoline pumps, tanks, etc. at Pensular Field. $25,000.

Golf Course, etc.—St. Louis, Mo.—See "Buildings—Commercial."

Swimming Pool, etc.—St. Louis, Mo.—See "Buildings—Commercial."

Land Development — Texas — E. W. Arthur, c/o G. & C. Hagelstein, Bway. Ave., San Antonio, plans developing 4,500 acre project, incl. irrigation ditches, paving, etc., in Nueces Valley Winter Garden Dist., Dimmitt and Webb Counties. $200,000.

Power Line—Texas—Central Power & Light Co., c/o Forst Bldg., San Antonio, making surveys, etc. high power transmission line from Victoria to Corpus Christi. $100,000. A. D. Evans, c/o owners, engr.

Casinghead Gasoline Plant—Abilene, Tex.—Phillips Petroleum Co., Bartlesville, Okla., plans casinghead gasoline plant, 25 mi. northwest of here, in Jones Co. $2,000,000. Work will probably be done by own forces. Private plans.

Causeway—Brownsville, Tex.—S. Robertson plans causeway from main land above Boca Chica to Clarks Island 6,800 ft. from shore then to Brazos Island 1,200 ft., 150 ft. ferry slip between mainland and Clarks Island over deep channel, near here. $250,000. Private plans.

Land Development—Dilley, Tex.—L. Beauchamp, c/o Brady Bldg., San Antonio, purchased 4,500 acres land near here, making plans developing same. $100,000. Private plans.

Land Development—Houston, Tex.—H. Lawson, c/o Chamber of Commerce, Mercedes, making plans developing 40 acres known as Queen City Annex, incl. paving $25,000, mains and lights, $22,000. Private plans.

Land Development—San Benito, Tex.—Dixie Development Co., and F. E. Jones, 15 West 10th St., Kansas City, Mo., making plans subdivision near here, incl. 9,000 acres farming to be cut in 5 and 10 acre tracts, remainder for townsite, dredging for harbor, channel, railroad terminals, wharves, golf course, paving, waterworks, etc. $1,000,000. Hare & Hare, Huntzinger Bldg., Kansas City, Mo., engrs.

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Land Development—Texas City, Tex.—Peters Trust Co., Omaha, Neb., making preliminary surveys, etc., subdivision and citrus farms on 1,750 acres land, near here, incl. roads, $35,000, etc. Private plans.

Transmission Line — Oklahoma — Oklahoma Northern Utilities Co., Local Bldg., Oklahoma City, made surveys 26 mi. 13,200 volt electric transmission line from Fairfax to Shedee and Blackburn, with distribution systems in each town. $40,000. Gannett, Seeley & Fleming, 1 North Market Sq., Harrisburg, Pa., engrs.

Swimming Pool and Dance Hall—Pueblo, Colo.—Griffin & Johnson, 4th and Main Sts., takes bids about Mar. 20, 45 x 105 ft., spoon shaped, rein.-con. swimming pool and 1 story, 180 x 200 ft., brick, concrete foundation, dance hall, $100,000.

Grade Separation—Los Angeles, Calif.—City, Los Angeles Co. and Pacific Electric Railway Co., Pacific Electric Bldg., plan grade separation, La Cienega Blvd. at Pacific Electric R.R. tracks, on Venice Line. $180,000. Railway appropriates $40,000 and City and Los Angeles Co. approximately $70,000 each toward cost.

Lighting System—Los Angeles, Calif.—Made plans ornamental lighting system on Kings Rd., Sweetzer and Aerial Aves. To exceed $25,000.

Transit Shed, Wharf, etc. — Oakland, Calif.—City, Port Comn., made plans 500 ft. transit shed, 180 ft., with concrete walls, incl. sprinkler system, at 14th St. Wharf; also two 300 ft. concrete piers, and 280 ft. shed, 90 ft. estuary terminal between Franklin and Webster Sts. G. B. Hegardt, city port mgr. Noted Mar. 10.

Stadium—Sacramento, Calif.—City making preliminary plans "U" shaped rein.-con. stadium, on Junior College Grounds. $140,000. Dean & Dean, California State Life Bldg., archts.

Flood Control Improvements — San Bernardino, Calif.—District (to be formed) in San Bernardino Co. plans election $200,000 bonds, flood control improvements.

Lighting System—San Francisco, Calif.—Making surveys improving, extending and standardizing lighting system. M. M. O'Shaughnessy, city engr.

Transmission Line—San Francisco, Calif.—Plans election $1,000,000 bonds, constructing transmission line from Newark, Alameda Co., here, for Hetch Hetchy project. M. M. O'Shaughnessy, city engr.

Repairing Bridges, etc.—Yreka, Calif.—Plans election $50,000 bonds, replacing bridges, water mains and Raymond sewer.

Subway — Brampton, Ont. — Peel Co. Council plans rebuilding and enlarging subway under Canadian Pacific R.R. tracks at Cedar Mills. $35,000. F. W. Wegenast, County Bldgs., engr. Work will probably be done jointly by Canadian Pacific R.R. and Peel Co.

Terminal and Subway — Niagara Falls, Ont.—Niagara, St. Catharines & Toronto Ry. (subsidiary of Canadian Natl. Rys., C. S. Gzowski, ch. engr. (constr.), Montreal, Que.), plans new terminal, connecting it with main line by constructing subway under Michigan Central tracks, also additional trackage, here. $100,000.

Coal Plant—Ottawa, Ont.—Corporation, c/o M. J. O'Brian, engr., Union Bank Bldg., plans constructing two 1,000 ton low temperature carbonization process of Canadian slack coal plants, one here and other at some western Ontario point.

Grain Elevator — Owen Sound, Ont. — Great Lakes Elevator Co., D. J. Kennedy, pres., plans rein.-con. 1,000,000 bu. capacity grain elevator addition, $225,000. Engineer not selected.

Steel Towers—Toronto, Ont. — Hydro-Electric Power Comn., Eng. Dept., F. A. Gaby, ch. engr., 190 University Ave. soon takes bids supplying steel structures for 200 mi. 220-kv. single circuit line from here to Ottawa River.

Swimming Pool — Welland, Ont. — City plans concrete swimming pool, $25,000. C. L. Coulson, City Hall, city engr.

Storage Bins — Windsor, Ont. — See "Buildings—Industrial."

Grain Elevator—Vancouver, B. C.—F. R. M. Russell, chn. Harbor Comn. soon takes bids 1,000,000 bu. grain elevator, $2,000,000.

Bids Desired

Power Unit—Boston, Mass.—Mar. 28, by Supply Dept., power unit, dynamo and engine complete in Institution Dept., Long Island. $25,000 or more. H. S. Frost, supt.

Track Work—Boston, Mass.—Apr. 5, by Transit Dept., 1 Beacon St., special track work for Dorchester Rapid Transit. $25,000. T. F. Sullivan, chn.

Refrigeration Equipment, etc. — Kings Park, N. Y.—Apr. 13, by Dept. Mental Hygiene, Capitol, Albany, refrigeration equipment, Building O, Veterans Memorial Hospital, Kings Park State Hospital, here; adv. E. N.-R. Mar. 17.

Borings—New York—Mar. 25, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, land and river borings, Newton Creek Crossing, Manhattan Ave. and Jackson Ave. from Greenpoint Ave., Brooklyn, to Crane St., Queens, Agreement "FK"; also in Harlem River Crossing, West 150th St. and St. Nicholas Pl., Manhattan, to River Ave., and East 161st St., Bronx, Agreement "FJ."

Gallows Frame—New York, N. Y.—Mar. 25, by A. Goldman, comr. Plant and Structures, Municipal Bldg., gallows frame and operating equipment Type "A" or "B," for Slip 3, Whitehall Ferry Terminal, foot Whitehall St., Manhattan Boro, and Slip 5, St. George Ferry Terminal, Richmond Boro. Noted Dec. 2.

Pier—Phila., Pa.—Mar. 15, by Dept. Wharves, Docks & Ferries, Pier 4, foot Chestnut St., substructure for Pier 80, 179 x 280 x 324 x 343 ft., timber deck, incl. 5,000 wood piles, etc., Jackson St., Moyamensing Group, $500,000.

Guard Rail—Florida—Mar. 22, by State Road Dept., Tallahassee, constructing approximately 35,520 lin.ft. woven wire guard rail on Road 5, Projects 663 and 679, Citrus and Hernando Counties. J. L. Cresap, highway engr.

Gas Main Extensions — Tennessee and Georgia—See "Contracts Awarded."

Conductor and Cable—Clevelannd, O.—Mar. 18, by City, 27,000 ft. 3 conductor No. 4/0 6/32 x 6/32 in., 15,000 ft. 3 conductor No. 4/0 3/32 x 3/32 in., 4,800 ft. 3 conductor No. 2 3/32 x 3/32 in., and 10,000 ft. 2 conductor No. 8 6/32 x 6/32 in. lead covered cable.

Bath House—Cleveland Heights (Warrensville P. O.), **O.**—Mar. 18, by City, H. H. Canfield, city mgr., 20 x 200 ft., brick and steel bath house. $40,000. W. R. Powell, Rose Bldg., Cleveland, archt.

Grandstand—Elyria, O.—Mar. 19, by Bd. Educ., rein.-con., stadium, 300 seating capacity. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, engrs.

Heating and Ventilating — Indianapolis, Ind.—Apr. 7, by Bd. School Comrs., 150 North Meridian St., complete heating, ventilating and plumbing systems in Shortridge High School, 34th St. between Meridian and Pennsylvania Sts. J. E. Kopf & Deery, 403 K. of P. Bldg., archts. and engrs. Noted Feb. 17.

Guard Rail—Charlton, Ia.—Mar. 22, at office Auditor Lucas Co., guard rail on Federal Aid Project 252-A, and Federal Aid Project 63-B and F.

Culverts — Grundy Center, Ia. — Mar. 22, by Auditor Grundy Co., constructing 45 culverts. E. A. Creary, Grundy Center, co. engr.

Undergrade Crossing—California—Mar. 28, by State Hy. Dept., Sacramento, undergrade crossing under Southern Pacific R.R. tracks, 1 mi. south of Ben Ali (III-Sac-3B), Sacramento Co. R. M. Morton, highway engr.

Subway—Toronto, Ont.—Mar. 22, by J. R. W. Ambrose, engr. Toronto Terminals Ry. Co., 402 New Union Sta., substructures for concrete and structural steel subway at Parliament, Sherbourne and Jarvis Sts. $500,000.

Bids Received

Signal Tower — Flushing, N. Y. — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, Mar. 14, reconstructing signal tower on elevated railroad structure, Flushing Route, Route 52, Sect. 1, Queens Boro, here, from J. B. Roberts & Co., 949 Bway., New York City, $6,770. Noted Mar. 3.

Alarm System—New York, N. Y.—J. J. McGrath, pres. Bd. Trustees Bellevue & Allied Hospitals, foot East 26th St., Mar. 14, from C. W. Mitchell, 37 East 28th St., installing fire alarm system in Bellevue Hospital **(A)** $56,000 **(B)** $54,400, and Fordham Hospital, $4,350. Noted Mar. 10.

Tunnel — Elizabeth, N. J. — Bd. Freeholders Union Co., constructing tunnel from county jail to court house annex, from F. Kilgus & Co., 13 South 6th St., Newark, $65,800.

Heating and Ventilating Plant—Phillipsburg, N. J.—Bd. Educ., heating and ventilating plant for proposed high school, from Johnston Heating Co., 332 East 47th St., New York City, N. Y., $54,980.

Contracts Awarded

Coal Gas Plant — Pawtucket, R. I. — Blackstone Valley Gas & Electric Co., Clinton St., Woonsocket, coal gas plant, to Stone & Webster, Milk St., Boston, Mass.

Pier — Brooklyn, N. Y. — A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, recreation pier at Atlantic Ave. Ferry Terminal, here, to C. Meads & Co., 1417 West 14th St., New York City, $88,200. Noted Feb. 24.

Playground—Long Island City, N. Y.—Bd. Educ., 500 Park Ave., New York City,

Unclassified (Continued)

playground adjoining Bryant High School, here, to A. D. Sadur, 853 East 176th St., New York City, $27,860. Noted Feb. 24.

Fender Racks—New York, N. Y.—New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., fender racks at Piers 34 and 5, in connection with Holland Tunnel, to A. N. Spooner & Sons, Inc., Pier 11, North River, $10,082. Noted Mar. 3.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing Sects. 1 and 2, Route 104, Rapid Transit R.R. under West 53rd St., to Patrick McGovern, Co., 50 East 42nd St., $9,700,195. Noted Oct. 21.

Swimming Pool—Phila., Pa.—See "Buildings—Commercial."

Swimming Pool — Upper Darby (mail Phila.), **Pa.**—See "Buildings—Commercial."

Gas Main Extensions — Tennessee and Georgia—Chattanooga Gas Co., 809 Broad St., Chattanooga, Tenn., will extend gas mains to Red Bank and White Oak, Tenn., and Rossville, Ga., by own forces. $250,000.

Lighting System—Minneapolis, Minn.—F. S. Gram, city purch. agt., furnishing and installing 743 electric light standards, to Acme Electric Co., 1042 West 7th St., St. Paul, for Bd. Park Comrs' $126,296. Noted Feb. 17.

Generator—New Ulm, Minn.—City, W. Packer, clk., one 1,250 kva. General Electric generator, and 1 duplex engine in Municipal Power Plant, to Nordberg Mfg. Co., Chicago and Oklahoma Sts., Milwaukee, Wis., $66,382. Note Jan. 27.

Grain Elevator—Kansas City, Mo.—Wabash R.R. Co., R. H. Howard, ch. engr., Ry. Exch. Bldg., St. Louis, general contract 1,000,000 bu. grain elevator, rein.-con. to James Stewart & Co., 343 South Dearborn St., Chicago, Ill. Noted Jan. 27.

Storage and Terminal Yards—St. Louis, Mo.—See "Railway under Missouri."

Pedestrian Subway—Long Beach, Calif.—Pedestrian subway under Ocean Blvd., to F. R. Johnson, 101 Wilshire Blvd., Beverly Hills, $69,950.

Coaling Plant — Belleville, Ont.—Canadian Natl. Rys., New Union Sta., Toronto, T. T. Irving, ch. engr., 300 ton coaling plant, rein.-con., to Canadian Eng. & Contg. Co., Imperial Bldg., Hamilton. Engrs. est. $30,000.

Materials

Proposed Work

Oil—Salem, N. J.—Salem Co. soon takes bids 300,000 gal. slow curing oil. H. B. Keasbey, Salem, engr.

Road Oil—Burgess, Ill.—Suez Twp. soon takes bids 8 cars road oil. G. Pease, Burgess, comr.

Road Oil — Galesburg, Ill.—City plans purchasing 2 cars road oil. A. L. Richey, city engr.

Road Oil — Galesburg, Ill.—Galesburg Twp. soon takes bids 5 to 8 cars road oil. O. Swedland, comr.

Bids Desired

Asphalt, Road Oil and Tar — Boston, Mass.—Commonwealth of Massachusetts, Comn. Administration & Finance, Room 315, in market asphalt road oil and tar, $5,000 or more.

Cement, etc.—New York, N. Y.—Mar. 23, by J. A. Lynch, pres. Richmond Boro, 275 tons asphaltic cement, 1,080 cu.yd. concrete and paving sand, also 1,840 cu.yd. trap rock screenings at asphalt plant of Bureau Highways Richmond Terrace near Taylor St.; 110,000 gal. bituminous road surfacing material, tar for cold application; 368,000 gal. asphaltic macadam binder, hot application; 1,080 cu.yd. concrete and paving sand; 1,600 cu.yd. 1½ in. broken stone 12-12, 2,100 cu.yd. 1½ in. broken stone 8-8, and 300 cu.yd. ¾ in. broken stone 12-12, and 300 cu.yd. screenings 8-8 in Dist. 1; 2,200 cu.yd. 1½ in. broken stone 12-12, 2,100 cu. yd. 1½ in. broken stone 8-8, 300 cu.yd. ¾ in. broken stone 8-8, 2,150 cu.yd. 1½ in. broken stone 12-12, 2,100 cu.yd. 1½ in. broken stone 8-8, 300 cu.yd. ¾ in. broken stone 12-12, and 300 cu.yd. screenings 8-8, in Dist. 2; 2,150 cu.yd. 1½ in. broken stone 12-12, 2,100 cu.yd. 1½ in. broken stone 8-8, 300 cu.yd. ¾ in. broken stone 12-12, and 300 cu.yd. screenings 8-8, in Dist. 3; 1,000 cu.yd. ¾ in. broken stone 12-12, 1,250 cu.yd. pea gravel in Dist. 1; 1,825 cu.yd. pea gravel, Dist. 2; and 1,775 cu.yd. pea gravel, Dist. 3.

Metals and Castings—New York, N. Y.—Mar. 21, by P. J. Dooling, comr. Purchase, Municipal Bldg., metals and castings to Fire and Police Depts., etc.

Pipe—New York, N. Y.—Mar. 23, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, engineers, plumbers and steam fitters supplies, etc., to Depts. Correction, Parks, Water Supply, Gas & Electricity, etc.

Asphalt Sand and Rubber Covered Wire.—Pittsburgh, Pa.—Mar. 18, by Dept. Supplies, E. J. Lafferty, dir., Class 169, asphalt sand; Class 171, rubber covered wire; and Class 80, garbage tankage, etc.

Crushed Lime Stone and Washed Gravel—Spencer, Ind.—Mar. 26, Bd. Comrs. Owen Co., at Auditor's Office, 500 yd. or more 1½ in. crushed lime stone to Cunot Quarry in Jackson Twp., Cataract Quarry in Jennings Twp., Quarry near Freeman in Clay Twp., Quarry near Cuba in Montgomery Twp., Quarry near Junction of Patricksburg and Vandalia Rds. in Washington Twp., Friend Quarry near Freedom in Franklin Twp., and Quarry on Spencer Bloomfield Pike; also washed gravel; and crushed lime stone in car-load lots f.o.b. Rolland and Stewart Switches, Patricksburg, Coal City, Jordan, Hubble, Gosport, Cataract, Quincy, and Freedom Stations.

Road Oil—Altona, Ill.—Walnut Grove Twp. in market 4 cars road oil. E. E. Anderson, Altona, comr.

Flux and Road Oil—Chicago, Ill.—Mar. 21, by City, Room 406, City Hall, flux oil, f.o.b. industrial tracks at municipal asphalt plants; and by road oil in tank cars, required by Bureau Streets during 1927. A. A. Sprague, comr. Pub. Wks.

Pile Chain—Chicago, Ill.—Mar. 22, by City, Room 406, City Hall, 5,000 ft. 3-4 in. BB chain, at 3150 South Sacramento Ave. A. A. Sprague, comr. Pub. Wks.

Road Oil—Chicago, Ill.—Mar. 21, by City, Room 406, City Hall, road oil in tank cars required by Bureau Streets during 1927. A. A. Sprague, comr. Pub. Wks.

Road Oil—Galva, Ill.—Galva Twp. in market 10 cars road oil. L. Mugrage, Galva, comr.

Road Oil—Kewanee, Ill.—Kewanee Twp. in market 7 to 10 cars road oil. C. Binno, Kewanee, comr.

Road Oil—Kewanee, Ill.—Weathersfield Twp. in market 6 to 8 cars road oil. J. Mayhew, Kewanee, comr.

Road Oil—Monmouth, Ill.—Hale Twp. in market 6 cars road oil. H. J. Roney, Monmouth, comr.

Road Oil—Oneida, Ill.—Ontario Twp. in market 5 cars road oil. G. Peterson, Oneida, comr.

Road Oil—Roseville, Ill.—Point Pleasant Twp. in market 6 cars road oil. A Woodward, Roseville, comr.

Road Oil—Rio, Ill.—Rio Twp. in market 10 cars road oil. A. Robertson, Rio, comr.

Road Oil—Smithshire, Ill.—Ellison Twp. in market 8 cars road oil. W. B. Scouller, Smithshire, comr.

Sewer Pipe, etc.—New London, Wis.—City, C. J. Thompson, clk., taking bids approximately 600 ft. 42 in. concrete sewer pipe; 6 and 8 in. water pipe; pig lead, hydrants, valves and valve boxes. H. B. Albert, City Hall, engr.

Lumber Culvert Pipe, etc.—Grundy Center, Ia.—Mar. 22, at office Auditor Grundy Co., 2 cars full sawed lumber, and 5,300 ft. corrugated culvert pipe. E. A. Crary, Grundy Center, co. engr.

Lumber, Culvert Pipe, etc.—Oskaloosa, Ia.—Mar. 21, at office Auditor Mahaska Co., 3 cars fir bridge lumber, 1 car cypress or red cedar piling, and 3,000 ft. culvert pipe. R. H. Tumy, Oskaloosa, co. engr.

Culvert Material—Madison, Minn.—Mar. 22, by A. Hjelmeland, aud. Lac qui Parle Co., approximately 192 lin.ft. 15 in., 280 ft. 18 in., and 120 ft. 24 in. corrugated metal pipe; 605 ft. 24 in., 30 ft. 36 in., and 210 ft. 48 in. concrete pipe.

Reinforcing Steel—Minneapolis, Minn.—Mar. 23, by F. S. Gram, city purch. agt., 172,000 lb. reinforcing steel for Sewer Dept. N. W. Elsberg, city engr. tachment.

Road Oil—Clayton, Mo.—Mar. 23, by R. Jablonsky, engr. St. Louis Co., Court House, approximately 900,000 gal. 60 per cent asphalt road oil to be ordered as needed during year.

Light Globes, Posts, etc.—Bristow, Okla.—City in market 100 "White Way" posts, 7,000 ft. double conductor cable, light globes, etc. M. Morrison, mayor.

Lighting Standards, Cable, etc.—Lawton, Okla.—City in market 60 "White Way" lighting standards and lights, also 7,000 ft. double conduit cable. C. S. Powell, mayor.

Steel Intake Pipe—Hamilton, Ont.—Mar. 23, by S. H. Kent, city clk., c/o F. F. Treleaven, chn. Bd. Control, City Hall, 2,953 lin.ft. 125 ft. lengths 60 in. steel intake pipe, etc., on Hamilton Beach.

Bids Received

Bituminous Material—New York—F. R. Cutter, supt. Standards & Purchase, Capitol, Albany, Mar. 11, from Warner Quilan Co., 26 Beaver St., New York City, 2,480,000 gal. bituminous material "A." Contr. 1 $398,857, 108,000 gal. hot applications and 10,000 gal. cold applications, Contr. 4, $9,361; from Mexican Petroleum Corp., 120 Bway., 1,243,000 gal. bituminous material "A," Contr. 2, $117,464; from Standard Oil Co. of New York, 56 Pearl St., Albany, 186,000 gal. bituminous material "A," 1,527,000 bbl. in car lots Contr. 3, $193,772; from L. L. Gowdy, 36 State St., Albany, 982,000 gal. bituminous material "A" emulsion, Contr. 5 $152,112, 16,000 gal. bituminous material "T" cold application or Trinidad liquid asphalt and 8,000 gal. millwood Contr. 8, $2,376; from Westchester Oil Co., 17 East 42nd St., New York City, 10,000 gal. wax oil to Rensselaer, and 16,000 gal. at Washingtonville, Contr. 6, $2,795; from Interstate Amiesite Co., Industrial Trust Bldg., Wilmington, Del., 4,110 tons mixed asphalt concrete Type 4, Contr. 7, $40,278; from Solvay Sales Corp., Milton Ave., Syracuse, 960 tons calcium chloride in steel drums, Contr. 9, $26,428; from Defiance Corp., 205 Sunset Ave., Syracuse, bituminous material "T," penetration 8,000 gal. in tank car lots, 23,000 gal. in barrels 2,000 in barrels Contr. 10 $4,757, also 434,000 gal. "T" cold application and "T" hot application in tank car lots and 26,000 gal. hot applications in tank car lots Contr. 13, $46,955; from Barrett Co., 40 Rector St., New York City, 54,000 gal. bituminous material "T" penetration 30,000 in barrels, Contr. 11 $10,095, 30,000 gal. cold application and 24 gal. cold application, Contr. 12 $6,848, 1,081,929 gal. cold application, 15,000 gal. cold application in barrels, and 40,000 gal. hot application in barrels $117,270. Noted Feb. 24.

Paving Materials—St. Paul, Minn.—A. E. Eggert, city purch. agt., Mar. 1, 3,000 sq.yd. 3.5 in. creosoted wood paving blocks, from Republic Creosoting Co., Merchants Bank Bldg., Indianapolis, Ind., at $2.39 per sq.yd., for Dept. Pub. Wks. Noted Feb. 24.

Road and Fuel Oil—St. Paul, Minn.—F. S. Gram, city purch. agt., 800,000 gal. road oil Spec. A, from Standard Oil Co., 3rd and Commercial Sts., at $0.067 per gal., and Spec. B, from Midwest Oil Co., 2500 Minnehaha Ave., Minneapolis, $0.0615 per gal.; 70,000 gal. fuel oil, from W. H. Barber Co., 1501 Franklin Ave., S. E., Minneapolis, at $0.067 per gal for Street Dept., and $0.0695 for school. Noted Mar. 3.

Road Oil and Asphaltic Cement — St. Louis, Mo.—Supply Comn., City Hall, Mar. 3, approximately 1 m.g. road oil, from Warson Petroleum Co., Inc., 119 North 7th St. at $0.04825 per gal.; and 1,500 tons asphaltic cement, from Standard Oil Co. of Indiana, Jefferson Ave. and Locust Blvd., at $20.75 per ton.

Contracts Awarded

Composition Castings — Boston, Mass.—City, Supply Dept., to Gibby Fdry. Co., Condor St., East Boston, 12,000 lb. 1 composition castings for Water Serv., at $0.295 per lb., 30,000 lb. 2, $0.265, and 3,000 lb. 3 $0.235; to E. L. LeBaron Fdry. Co., Brockton, 325,000 lb. iron casting, two part iron boxes for Pub. Wks. Dept., Water Div., at $0.0445 per lb.

Stone Ballast — Boston, Mass.—Transit Dept., 1 Beacon St., Boston, 5,000 tons stone ballast, George St. Yd. Boston Elevated Ry., Somerville, to Rowe Constr. Co., North Revere St., Malden, at $1.85 per ton; 5,000 tons for Dorchester Rapid Transit between Dorchester and Crescent Aves., Dorchester, to W. J. Barry, 431 Ashland St., Rosindale, $2.25. Noted Feb. 17.

Fuel Oil—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 1,100,000 gal. fuel oil, to Petroleum Heat & Power Co., 511 5th Ave. at $0.525 per gal., total $57,750. Noted Mar. 10.

Portland Cement—Minnesota—State Hy. Dept., St. Paul, 116,652 bbl. portland cement, to Universal Portland Cement Co., 202 Wolvin St., Duluth, $307,435; 41,190 bbl., to Cutler-Magner Co., 1115 Fidelity Bldg., Duluth, $103,919; 13,806 bbl., to Northwestern States Portland Cement Co., Des Moines, Ia., $34,929; 90,685 bbl., to Lehigh Portland Cement Co., Des Moines, Ia., $220,025; and 24,467 bbl., to Interstate Lumber Co., Stillwater, $61,669, prices incl. sacks and f.o.b. stations nearest paving jobs. Grand total $827,997. Noted Feb. 3.

Special proposal advertising on page 155

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Engineering News-Record Unit Prices

Dam—Portland, Ore.

Bids were opened by City for constructing Bull Run storage dam, from (A) Bent Bros., (awarded contract); (B) Claude Fisher; (C) Allied Contractors & Ross Construction Co.; contractors all of Los Angeles. The unit bids are as follows:

	A	B	C
32,000 cu.yd. common excav. (above el. 870)	$1.50	$0.95	$3.503
20,000 cu.yd. common excav. (below el. 870)	1.30	2.39	3.50
45,000 cu.yd. solid rock excav. (above el. 870)	2.50	2.89	3.50
10,000 cu.yd. solid rock excav. (below el. 870)	4.00	8.65	8.00
1,000 cu.yd. solid rock excav. (in cut off trench)	4.00	10.00	12.00
15,000 cu.yd. backfill	.75	.65	.50
230,000 cu.yd. plain concrete	4.30	5.05	4.70
2,500 cu.yd. rein. con. class "A"	9.00	15.50	10.00
1,200 cu.yd. rein. con. class "B"	21.00	28.00	20.00
Gate house and valve house (lump sum)	6,000.00	5,800.00	7,500.00
300,000 lb. rein. steel	.05	.05	.04
175,000 lb. struc. steel (in place)	.10	.105	.07
400 pieces anchor rods, spillway gates	4.00	5.85	7.00
475,000 lb. sluicepipes, etc. (in place)	.075	.098	.65
250,000 lb. sluice gates (place only)	.025	.027	.02
2,500 lin.ft. copper water stops (in place)	4.00	2.25	2.00
11,000 lin.ft. concrete drain-pipe (in place)	.55	.27	.40
25,000 lin.ft. 3-in. special concrete pipe (in place)	.20	.28	.40
5,000 lin.ft. 2-in. drain holes in rock	4.50	2.30	3.00
5,000 lin.ft. 2-in. grout holes in rock	4.50	2.30	3.00
250 cu.yd. grout (in place)	50.00	21.00	20.00
700 lin.ft. 1½-in. pipe railing	2.00	2.00	1.50
Totals	$1,440,375	$1,688,410	$1,694,875

Road—Massachusetts

Bids were opened by Department of Public Works, Division of Highways, Boston, Dec. 21, (lowest three) for constructing roads in Raynham and Taunton, from (A) Creany & Sherry, Fall River, (awarded contract); (B) J. McCormick, East Providence, R. I.; (C) Powers Bros., Brockton. The unit bids are as follows:

	A	B	C
18,200 cu.yd. roadway earth excavation	$0.80	$0.84	$0.85
50 cu.yd. ledge excavation	5.00	3.00	5.00
15 cu.yd. plain concrete masonry	25.00	25.00	25.00
1 cu.yd. reinforced concrete masonry	25.00	30.00	40.00
4,520 cu.yd. cement concrete surfacing	10.50	10.40	10.00
4,350 tons broken stone	3.15	2.90	3.05
30,700 gal. bituminous material asphalt	.13¼	.12¾	.14
1,490 lin.ft. 10-in. pipe vit. cl.	1.25	1.35	1.50
3,370 lin.ft. 12-in. pipe vit. cl.	1.35	1.40	1.75
430 lin.ft. 15-in. pipe vit. cl.	1.65	1.60	1.75
460 lin.ft. 18-in. pipe vit. cl.	2.35	2.45	2.25
530 lin.ft. 24-in. pipe vit. cl.	3.40	3.35	3.25
100 lin.ft. 18-in. pipe reinf. con.	3.00	2.85	4.00
800 lin.ft. fencing	.75	.65	.60
4 bounds	6.00	5.00	4.00
32 catch basins	80.00	80.00	80.00
199,700 lb. steel reinforcement	.03¾	.034	.03
32 curb inlets	35.00	27.50	30.00
75 removal trees	12.00	10.00	12.00
18,300 cu.yd. gravel borrow	.90	1.00	1.05
300 cu.yd. sand borrow	1.50	1.75	1.50
1,900 cu.yd. stripping gravel pits	.20	.20	.20
10 manholes	75.00	75.00	80.00
18,800 lin.ft. ref. and trim shoulders	.05	.04¾	.05
28 lin.ft. 30-in. r. c. pipe	7.50	6.50	6.00
94 cu.yd. lumnite conc. surf.	14.50	18.00	15.00
1,550 sq.yd. scar. and reshaping	.15	.12	.20
100 lin.ft. fences rem. and reset	.75	.50	.25
200 lin.ft. cobble stone edg.	.35	.30	.30
30 lin.ft. curb stone reset	.50	.60	2.00
14 cu.yd. conc. pav. exc. and rem.	1.75	2.00	8.00
Totals	$124,428	$124,569	$126,779

Water Pipe—Detroit, Mich.

Bids were opened by City, Jan. 26, for laying water pipe, Contract No. 1927-3 from (A) John A. McDace Co., 2016 Webb St., (awarded contract); (B) Detroit Drainage Construction Co.; (C) G. A. Gessner, Toledo, O.; (D) Ray D. Baker. The unit bids are as follows:

	A	B	C	D
3,925 ft. 16 in. pipe	$1.15	$1.45	$1.49	$1.50
1,800 ft. 12 in. pipe	.95	1.35	1.06	1.25
19,565 ft. 8 in. pipe	.64	.60	.67	.80
11,645 ft. 6 in. pipe	.58	.56	.58	.75
4 16 in. gate wells	70.00	78.00	76.00	75.00
57 6-8-12-in. gate wells	60.00	65.00	64.00	65.00
1 B.O.	20.00	20.00	20.00	10.00
Totals	$29,219	$30,418	$31,590	$36,538

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Road—Missouri

Bids were opened by State Highway Commission, Jefferson City, Jan. 28, (lowest three and highest) for improving 4.278 mi. Project 1B, Cole Co., from (A) Davis Construction Co., Booneville, (awarded contract); (B) S. J. Groves & Sons, Minneapolis, Minn.; (C) W. A. Ross Co., Kansas City; (D) Cameron-Joyce-Smith-Elder Co., Keokuk, Ia. The unit bids are as follows:

	A	B	C	D
105.3 stations clearing and grubbing	$20.00	$15.00	$10.00	$30.00
75,314 cu.yd. class "A" excav.	.30	.32	.37	.55
1,776 cu.yd. class "B" excav.	.85	1.20	1.33	1.65
27,789 cu.yd. class "C" excav.	1.35	1.20	1.33	1.65
42,311 cu.yd. borrow excav.	.30	.32	.30	.44
171,614 cu.yd. sta. overhaul	.04	.02	.025	.03
516 lin.ft. 15-in. r.c.p. culv. fe. and sr.	2.50	3.00	3.00	2.25
40 lin.ft. 18-in. r.c.p. culv. sr. and fe.	3.50	4.00	4.00	3.00
272 sq.yd. plain rip rap	1.50	1.50	.80	2.25
533.6 cu.yd. class "B" conc. mas.	16.00	17.00	16.00	18.00
53,520 lb. reinf. for conc. mas.	.05	.06	.05	.05
Totals	$96,334	$92,528	$98,363	$129,527
Bridge at sta. 190+34				
7,672 cu.yd. excav. for bridge	$4.00	$4.00	$5.50	$6.00
3,000 lin.ft. timber piles in place	.80	1.00	.95	1.00
300 lin.ft. timber piles cutoffs	.80	1.00	.90	.75
1,080 lin.ft. creo. piles in place	1.25	1.20	1.30	1.25
108 lin.ft. creo. pile cutoffs	1.00	1.20	1.30	1.00
520.0 cu.yd. class "B" conc. mas.	15.00	17.00	16.00	18.00
370.2 cu.yd. class "X" conc. mas.	16.00	18.00	16.00	18.00
109,080 lb. of reinf. for conc. struc.	.05	.06	.05	.05
189,060 lb. fab. struct. steel	.063	.07	.07	.07
1,280 lb. steel castings	.12	.12	.15	.20
1,884 lin.ft. cras. pipe for br. rails	.50	.60	.55	.50
Totals	$42,970	$47,980	$48,020	$50,624
Bridge at sta. 318+28				
230 cu.yd. excav. for bridge	$2.50	$2.50	$4.00	$4.00
10.2 cu.yd. class "A" conc. mas.	40.00	40.00	40.00	35.00
161.7 cu.yd. class "B" conc. mas.	15.00	17.00	17.00	18.00
83.7 cu.yd. class "X" conc. mas.	16.00	18.00	17.00	18.00
32,520 lb. reinf. for conc. stru.	.05	.06	.05	.05
Totals	$6,373	$7,190	$7,126	$7,320
Grand totals	$145,677	$147,698	$153,509	$187,472

Bridge—Virginia

Bids were opened by State Highway Commission, Richmond, Jan. 29, (lowest three), for constructing bridge over Broad Run on Route 21, Project F-371E, Prince William County, from (A) Philip L. Baird, Roanoke, (awarded contract); (B) J. J. Battershill & Son, Virgilina; (C) C. S. Luck & Sons, Inc., Richmond. The unit bids are as follows:

	A	B	C
187.6 cu.yd. class "A" conc.	$24.50	$22.00	$25.00
293.6 cu.yd. class "B" conc.	17.25	20.00	17.00
38,110 lb. reinforcing steel	.055	.05	.06
55.2 cu.yd. dry excavation	1.00	1.00	1.00
206.6 cu.yd. wet excavation	3.00	2.00	2.00
Removing old bridge (lump sum)	500.00	1,000.00	1,000.00
Totals	$12,932	$13,373	$13,436

Road—Washington

Bids were opened by State Highway Department, Olympia, Feb. 15, for improving portion of State Road No. 12 known as Chinook River Dike, Pacific County, from (A) Brookfield Quarry & Towage Co., 32nd and Waterfront St., Astoria, Ore., (awarded contract); (B) Henry Makela & Son, 212 Astor Bldg., Astoria; (C) Gilpin Construction Co., Foot of 14th St., Astoria; (D) Willapa Construction Co., Raymond. The unit bids are as follows:

	A	B	C	D
Clearing and grubbing (lump sum)	$250.00	$300.00	$300.00	$250.00
Embankment complete in place (lump sum)	11,745.00	13,154.00	14,700.00	17,250.00
1,260 cu.yd. loose riprap in place	2.75	3.95	3.50	4.15
1,260 cu.yd. hand placed riprap in place	5.00	5.00	4.00	5.95
90 M. ft. B.M. sheet piling, untreated in place	90.00	80.00	80.00	68.00
42 driving piles in shear boom	5.00	8.00	6.00	8.25
1,500 lin.ft. furnishing piling at site	.40	.18	.19	.22½
1,800 lin.ft. boom sticks in place	.50	.60	.60	.48
Detour (lump sum)	200.00	300.00	1,200.00	250.00
Totals	$31,770	$33,917	$34,467	$38,144

Continued on page 176a

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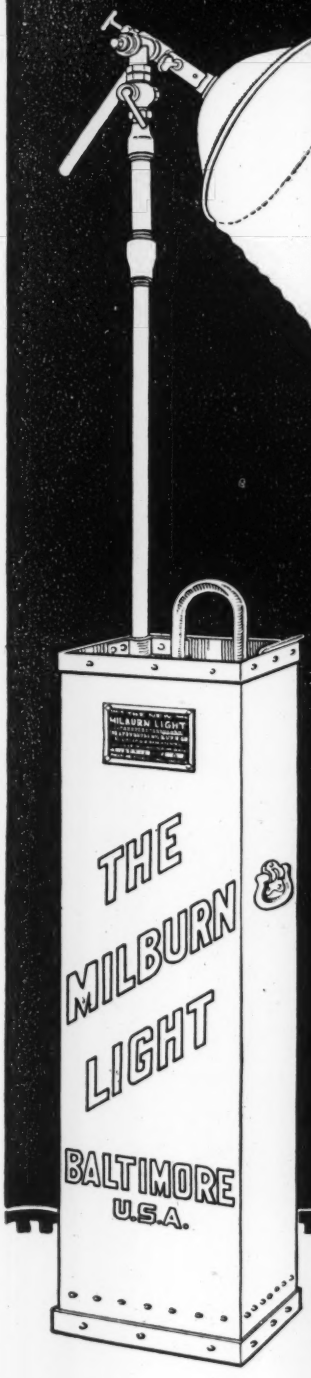

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Engineering News-Record Unit Prices

Viaduct—New Mexico

Bids were opened by State Highway Department, Santa Fe, Dec. 28, 1926, (lowest four and highest) for constructing viaduct on Las Cruces-Deming Highway, Dona Ana Co., F.A.P. 107-B, from (A) Goetting & Porter, Las Cruces, (awarded contract); (B) Ware Co., El Paso, Tex.; (C) G. W. Orr, Clint, Tex.; (D) Hayner & Burn, Las Cruces; (E) Pueblo Bridge & Construction Co., Pueblo, Colo. The unit bids are as follows:

	A	B	C	D	E
600 cu.yd. common excavation	$1.00	$0.40	$0.25	$0.50	$0.50
2,100.7 cu.yd. class "A" concrete (B. G. Overpass)	17.25	19.00	23.22	20.50	26.20
6,768 sq.ft. expanded metal reinf.	.17	.05	.03	.03	.04
417,768 lb. reinforcing bars	.049	.05	.042	.05½	.06
2,938 lb. reinf. bars (conc. pav.)	.049	.05	.05	.05½	.06
460 lin.ft. woven wire guard	.70	1.00	.85	.75	1.20
7,600 lin.ft. wooden piling	1.50	1.50	1.10	1.35	1.35
2,203 cu.yd. earth fill	.75	.50	.25	.30	.30
190 cu.yd. cement concrete pav.	10.00	12.00	13.00	12.00	14.00
63 lin.ft. asphalt expansion joint	.20	.15	.14	.15	.14
Totals	$73,889	$76,778	$78,605	$79,210	$94,99

Road—Virginia

Bids were opened by State Highway Commission, Richmond, Jan. 25, (lowest three) for constructing 2.078 mi. Route 20, Project S-323-E, Charlotte Co., from (A) J. J. Battershill & Son, Virgilina (awarded contract); (B) Peacock & Hester, Greensboro, N. C.; (C) C. H. Oliver & Co., Doswell. The unit bids are as follows:

	A	B	C
7 acres clearing and grubbing	$100.00	$125.00	$130.00
45,008 cu.yd. reg. excavation	.35	.40	.40
450 lin.ft. 15 in. pipe	1.40†	1.50*	1.50*
470 lin.ft. 18 in. pipe	2.00	2.00	.210
130 lin.ft. 24 in. pipe	3.50	3.00	.310
4,929 cu.yd. top soil and nat. sand clay mixture	.40	.40	.40
80 cu.yd. class "A" concrete	22.00	22.00	24.00
30 cu.yd. class "B" concrete	20.00	20.00	20.00
5,978 lb. metal reinf.	.05	.06	.05
46 concrete rignt of way monuments	2.00	2.50	2.00
Bridge over Cub Creek (lump sum)	11,800.50	10,264.80	10,956.35
Totals	$38,501	$39,549	$40,499

*Reinf. concrete pipe.
† Class of pipe not designated.

Street Improvement—Chicago, Ill.

Bids were opened by Board of Local Improvements, Feb. 17, for Sect. A of North Robey Street Improvement, including main bridge pier, from (A) Ketler-Elliott Co., 3121 South California Ave., (awarded contract); (B) Contracting & Material Co.; (C) M. E. White Co.; (D) Warner Construction Co.; (E) Chicago Foundation Co.; States Construction Co., $461,252; Great Lakes Dredge & Dock Co., $567,914; Underground Construction Co., $588,055; Fitz Simons & Connell Dredge & Dock Co., $589,025; Midcontinent Construction Co., $590,772. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
Three wall cofferdam (lump sum)	$57,000.00	$59,500.00	$75,000.00	$105,000.00	$120,000.00
Back wall cofferdam (lump sum)	3,000.00	6,500.00	5,268.00	15,000.00	20,000.00
Removing obstructions (lump sum)	3,500.00	1,400.00	1,354.00	4,000.00	5,000.00
7,000 cu.yd. common excav.—main pier	5.00	4.25	5.25	4.57	5.00
70 cu.yd. masonry and rock excav.—main pier	10.00	10.00	10.00	15.00	6.00
3,400 cu.yd. comm. excav. outside main pier	1.55	2.00	4.50	.84	2.50
50 cu.yd. masonry and rock excav.—outside main pier	5.00	10.00	5.00	4.80	5.00
310 sq.yd. stone or conc. sidewalks removed	1.00	1.15	.55	1.50	1.00
440 sq.yd. pavement with found.—removed	1.25	1.25	1.55	2.00	1.00
450 sq.yd. pavement—no found.—removed	1.50	1.00	.55	1.50	.75
8,400 cu.ft. 1:6 conc. in sub-piers	2.00	1.20	1.16	2.00	2.00
1,000 cu.ft. limestone etc. removed from piers	1.00	.40	.82	.50	1.25
4 test piles	150.00	125.00	300.00	275.00	150.00
5,600 lin.ft. creosoted oak piles delivered	.50	.90	.72	.64	.55
15,000 lin.ft. untreated foundation piles delivered	.35	.35	.30	.27	.40
4,950 lin.ft. creosoted oak piles driven	.60	.75	.65	.67	.45
13,000 lin.ft. untreated foundation piles driven	.40	.50	.27	.22	.40
8 M.A.B.M. creosoted oak timber	300.00	200.00	250.00	200.00	245.00
2,750 cu.yd. 1:7½ conc. in main bridge pier, etc.	16.00	14.00	16.70	15.10	25.00
4,500 cu.yd. 1:8 conc. in retaining walls	14.50	14.75	13.50	12.00	23.00
220 cu.yd. cement mortar waterproof course	24.00	20.00	18.85	17.52	40.00
425,000 lb. reinforcing steel	.04½	.05	.05	.06	.07
140,000 lb. structural steel	.07½	.09	.08	.087	.12
50,000 lb. miscellaneous steel and iron work	.10	.15	.13	.10	.15
1,200 lin.ft. railing on retaining walls	7.25	9.00	8.30	12.20	7.00
60 lin.ft. safety treads	2.00	1.50	1.60	2.00	1.25
15,000 cu.yd. general filling	1.10	1.75	1.50	2.00	2.50
2,900 sq.yd. 10 in. concrete pavement	4.50	4.50	4.65	4.10	6.00
1,620 sq.yd. 8 in. concrete pavement	4.00	4.00	3.88	3.30	5.50
1,200 sq.yd. 5 in. granite block on 8 in. conc. foundation	8.00	8.00	8.00	6.66	9.25
20,000 sq.ft. sidewalks and safety island	.33	.36	.35	.35	.30
2,200 lin.ft. integral curbs	1.00	.62	.65	1.00	1.25
10 cu.yd. 1:9 conc. under pave. foundation	18.00	20.00	9.77	10.20	15.00
16 cu.yd. 1:5½ conc. in beam and slab	20.00	25.00	15.60	27.00	25.00
20,000 sq.ft. damp-proofing	.09	.09	.08	.05	.15
Membrane waterproofing (lump sum)	250.00	150.00	127.00	200.00	200.00
250 cu.ft. asphaltic concrete	2.00	1.50	1.87	2.00	1.50
18 new sewer manholes complete	85.00	150.00	210.00	150.00	135.00
20 new catch basins complete	80.00	87.00	108.00	47.20	120.00
12 c.i. inlets complete	35.00	34.00	47.70	54.00	75.00
4 existing catch basins adjusted	40.00	35.00	47.70	15.00	50.00
1 existing manhole, adjusted	40.00	15.00	19.00	20.00	50.00
2,100 lb. new iron castings for manholes, etc.	.05	.12	.09	.10	.10
1,400 lin.ft. 6 in. drain tile	.55	.70	.70	.50	1.50
1,300 lin.ft. 8 in. tile pipe sewer	2.00	2.25	3.00	1.00	3.00
1,000 lin.ft. 12 in. tile pipe sewer	2.90	3.10	4.30	1.50	5.00
30 lin.ft. 12 in. c.i. pipe sewer	7.00	4.00	5.00	5.00	20.00
14 lin.ft. 6 in. c.i. pipe downspout	3.00	5.00	3.48	2.50	2.00
17 new electrical manholes	350.00	368.00	494.50	400.00	389.00
2 existing elec. manholes adjusted	75.00	90.00	117.50	92.40	104.00
1,000 lb. new iron castings for elec. manholes	.25	.25	.33	.27	.28
19 lamp standard foundations	20.00	19.00	25.16	19.80	21.00
1,040 tr'ch.ft. 8-duct fibre conduit line	4.70	5.00	6.54	5.15	5.50
1,015 tr'ch.ft. 6-duct fibre conduit line	4.25	4.50	5.96	4.70	5.08
70 tr'ch.ft. 4-duct fibre conduit line	3.50	4.00	4.88	3.83	4.30
580 tr'ch.ft. 2½ in. iron pipe conduit in ground	2.25	2.40	3.20	2.51	2.80
50 tr'ch.ft. 2½ in. iron pipe conduit in structure	2.25	2.50	3.20	2.51	2.80
2,700 lin.ft. 5,000 volt l.c. cable	.45	.44	.58	.47	.50
1,200 lin.ft. 600 volt, 2 cond't'r l.c. cable	.35	.38	.51	.40	.44
13 lamp transformers	105.00	105.00	146.75	111.55	120.00
12 tubular steel pole for lamp standard	150.00	156.00	209.00	165.00	175.00
11 lamp standard No. 1	350.00	406.00	545.46	430.00	425.00
1 lamp standard No. 3	450.00	468.00	629.00	495.00	485.00
Totals	$396,864	$408,670	$441,587	$443,776	$607,692

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